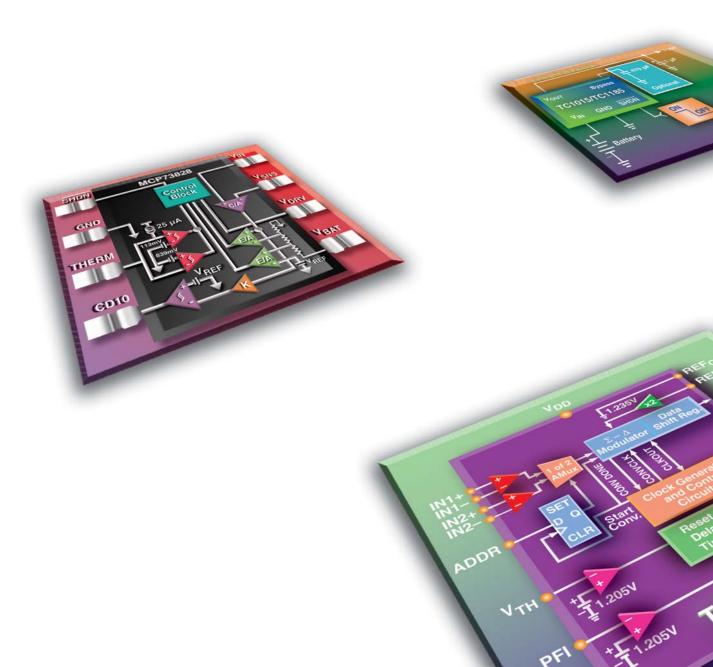


# **Stand-Alone Analog and Interface Solutions**

- Thermal Management
- Battery Management
- Interface Peripherals

- Power Management
- · Linear & Mixed- Signal

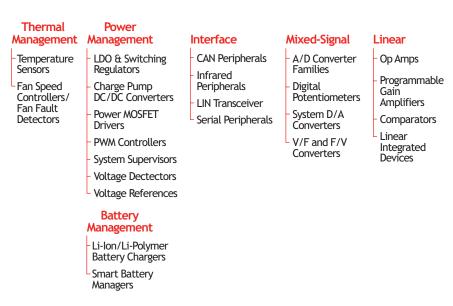


# Are you looking for Complete Analog & Interface Design Solutions?

Microchip's integrated analog technology, peripherals and features are engineered to meet today's demanding design requirements. Our broad spectrum of analog products addresses thermal management, power management, battery management, mixed-signal, linear and interface solutions. Combined with "Intelligent Analog" microcontrollers, Microchip offers an extensive analog portfolio for thousands of high-performance design applications in the automotive, communications (wireless), consumer, computing and industrial control markets.

Our broad portfolio of stand-alone analog and interface devices offers highly integrated solutions that combine various analog functions in space-saving packages and support a variety of bus interfaces. Many of these devices support functionality that enhances the analog functionality currently available on PIC® microcontrollers.

# Microchip Technology's Stand-Alone Analog & Interface Portfolio



# **Thermal Management Solutions**

From temperature measurement to critical over-temperature protection, Microchip's thermal management solutions will help your design operate at an optimal temperature. Ease-of-use, no firmware, high-integration and the ability to work with simple 2-wire fans, are a few of the reasons engineers choose our Fan Speed Controllers and Fan Fault Detectors. Microchip also offers a wide variety of logic, voltage and serial output temperature sensors to thermally protect your system and ensure real-time temperature measurement and compensation.

Part #	Description	
TC642	PWM Fan Speed Controller with Fan Fault Detection	
TC646	PWM Fan Speed Controller with Fan Fault Detection and Auto-Shutdown	
TC647	PWM Fan Speed Controller with Fan Fault Detection	
TC648	PWM Fan Speed Controller with Over-Temperature Detection and Auto-Shutdown	
TC649	PWM Fan Speed Controller with Fan Fault Detection and Auto- Shutdown	
TC642B	PWM Fan Speed Controller with Fan Fault Detection and Fan Restart	
TC646B	PWM Fan Speed Controller with Fan Fault Detection, Auto- Shutdown and Fan Restart	
TC647B	PWM Fan Speed Controller with Fan Fault Detection and Fan Restart	
TC648B	PWM Fan Speed Controller with Over-Temperature Detection, Auto Shutdown and Fan Restart	
TC649B	PWM Fan Speed Controller with Fan Fault Detection, Auto- Shutdown and Fan Restart	
TC650/651	Integrated Temperature Sensor and Brushless DC Fan Controller with Over-Temperature Alert	
TC652/653	Integrated Temperature Sensor and Brushless DC Fan Controller with Fan Fault Detection & Over-Temp Alert	
TC654/655	Dual SMBus Fan Speed Controller with Fan Fault and Over Temperature Detection	
TC664/665	Single SMBus Fan Speed Controller with Fan Fault and Over Temperature Detection	
TC670	SOT-23 Predictive Fan Fault Detector	

D	B 1 11	
Part #	Description	
Voltage Output		
TC1046	High Precision Temperature-to-Voltage Converter (6.25 mV/°C)	
TC1047/47A	High Precision Temperature-to-Voltage Converters (10 mV/°C)	
MCP9700/01	Very Low-cost Linear Active Thermistors in SC-70 Package	
Logic Output		
TC6501/2/3/4	Ultra-Small Temperature Switches with Pin-Selectable Hysteresis	
TC620/21	5V Dual Trip-Point Temperature Switch	
TC622/24	Low Cost, Single Trip-Point Temperature Switch	
TC623	3V Dual Trip-Point Temperature Switch	
Serial Output		
TC72	High-Accuracy, 10-bit Digital Thermal Sensor with 4-wire SPI™ Interface	
TC74	SOT-23 SMBus Digital Temperature Sensor	
TC77	High-Accuracy, 13-bit Digital Thermal Sensor with 3-wire SPI Interface	
TCN75A	Serial Interface Digital Temperature Sensor and Thermal Monitor	
MCP9800/1/2/3	High Accuracy, 12-bit Digital Thermal Sensor with 2-wire Interface	

# **Power Management Solutions**

Power Management products from Microchip help drive today's most demanding power supply applications.

voltages, 50	egulators — Microchip's portfolio of LDOs features ultra low drop-out 0 mA to 1.0A output currents and small SOT and SC-70 package options.		
Part #	Description		
50 mA Out	out Current		
TC1014	CMOS LDO with Shutdown Mode and VREF Bypass Input		
TC1054	CMOS LDO with Shutdown Mode and ERROR Output		
TC1070	Adjustable CMOS LDO with Shutdown Mode, 85 mV VDROPOUT		
TC1072	CMOS LDO with Shutdown Mode, ERROR Output and VREF Bypass Input		
TC1223	CMOS LDO with Shutdown Mode, 85 mV VDROPOUT		
TC2014	CMOS LDO with Shutdown Mode and VREF Bypass Input, 45 mV		
TC2054	CMOS LDO with Shutdown Mode and ERROR Output, 45 mV VDROPOUT		
80 mA Out			
TC1016	CMOS SC-70 LDO with Shutdown		
	tput Current		
TC1015	CMOS LDO with Shutdown Mode and VREF Bypass Input		
TC1055	CMOS LDO with Shutdown Mode and ERROR Output		
TC1071	Adjustable CMOS LDO with Shutdown Mode		
TC1073	CMOS LDO with Shutdown Mode, ERROR Output and VREF Bypass Input		
TC1224	CMOS LDO with Shutdown Mode		
TC2015	CMOS LDO with Shutdown and VREF Bypass Input, 90 mV VDROPOUT		
TC2055	CMOS LDO with Shutdown and ERROR Output, 90 mV VDROPOUT		
120 mA Ou	tput Current		
TC1188	MAX8863 Replacement CMOS LDO with Shutdown Mode		
TC1189	MAX8864 Replacement CMOS LDO with Shutdown Mode and Auto Discharge		
150 mA Ou	tput Current		
TC1017	CMOS LDO with Shutdown Mode, 50 µA Active Current, SC-70 package		
TC1185	CMOS LDO with Shutdown Mode and VREF Bypass Input, 50 μA Activ Current		
TC1186	CMOS LDO with Shutdown Mode and ERROR Output, 50 μA Active Current		
TC1187	Adjustable Vout CMOS LDO with Shutdown Mode		
TC2185	CMOS LDO with Shutdown Mode and VREF Bypass		
TC2186			
	CMOS LDO with Shutdown Mode and ERROR Output		
	OMOS L DO with Shutdown 40V/Vv Dange		
TC56	CMOS LDO with Shutdown, 10V VIN Range		
	tput Current		
MCP1700	1.5 µA Supply Current CMOS LDO		
	tput Current		
TC1107	CMOS LDO with Shutdown Mode and VREF Bypass Input		
TC1108	CMOS LDO in 3-pin SOT-223		
TC1173	CMOS LDO with Shutdown Mode, ERROR Output and VREF Bypass Input		
TC1174	Adjustable CMOS LDO with Shutdown Mode and VREF Bypass Input		
TC1269	CMOS LDO with Shutdown Mode and VREF Bypass Input		
500 mA Ou	tput Current		
TC1262	Fixed Output CMOS LDO		
TC1263	CMOS LDO with Shutdown Mode, ERROR Output and VREF Bypass Inpu		
TC1268	Fast Response CMOS LDO with Shutdown Mode, ERROR Output and VREF Bypass Input		
800 mA Ou	tput Current		
TC1264	Fixed Output CMOS LDO		
TC1265	CMOS LDO with Shutdown Mode, ERROR Output and VREF Bypass Input		
TC2117	Fixed Low Dropout CMOS Regulator		
1.0A Outpu			
MCP1726	CMOS LDO with Shutdown Mode and Power Good Output with		
	Programmable Delay, Ceramic Output Capacitor Stable		
	y LDOs — Specialty LDOs are available for unique design requirements.		
TC57	Positive LDO Controller with Shutdown		
TC59	-10 Vin Max, 100 μA CMOS LDO		
TC1266	200 mA PCI-compliant LD0		
TC1267	400 mA PCI-compliant LDO		

range input supply voltages and output currents and offer outstanding latch-up immunity. The portfolio has recently been expended with the addition of smaller, surface mount power-enhanced peakages.  Part # Description  O.5A Peak Output Current, Low Side Driver TC1410/N Single, Inverting/Non-Inverting T.0A Peak Output Current, Low Side Driver TC1411/N Single, Inverting/Non-Inverting T.2A Peak Output Current, Low Side Driver TC1426/7/8 Dual, Inverting/Non-Inverting/Combo TC4467/8/9 Quad, 2-input Logic Gate Inputs T.5A Peak Output Current, Low Side Driver TC426/7/8 Dual, Inverting/Non-Inverting/Combo TC4460/7/8 Dual, Inverting/Non-Inverting/Combo TC4404/0/3 Single, Non-Inverting, Tombo, Also Available in High-Performance *A' Version TC4426/7/8 Dual, Inverting/Non-Inverting TC4426/7/8 Dual, Inverting/Non-Inverting TC4426/7/8 Dual, Inverting/Non-Inverting TC4426/7/8 Single, Inverting/Non-Inverting TC4426/7/8 Single, Inverting/Non-Inverting TC4426/7/8 Single, Inverting/Non-Inverting TC4427 Single, Inverting/Non-Inverting TC4429/1 Single, Inverting/Non-Inverting TC4429/1 Single, Inverting/Non-Inverting TC4429/2 Single, Inverting/Non-Inverting TC4420/2/9 Single, Inverting/Non-Inverting TC4421/2/2 Single, Inverting/Non-Inverting TC452 Dual Channel Voltage Detector TC53 1 μA Voltage Detector with Open-Drain Output TC4431/3/3 Single, Inverting/Non-Inverting TC4431/3/3 Single, Inverting/Non-Inverting TC5421 1 μA Voltage Detector with Output Delay TC542 1 μA Voltage Detector with Output Delay TC543 1 μA Vo	Power MOS	SFET Drivers - Microchip's Power MOSFET Drivers feature wide
Part # Description  0.5A Peak Output Current, Low Side Driver  1.01410/N Single, Inverting/Non-Inverting  1.0A Peak Output Current, Low Side Driver  1.0.1411/N Single, Inverting/Non-Inverting  1.0A Peak Output Current, Low Side Driver  1.0.1426/7/8 Dual, Inverting/Non-Inverting/Combo  1.04467/8/9 Dual, Inverting/Non-Inverting/Combo  1.04467/8/9 Dual, Inverting/Non-Inverting/Combo  1.04407 Single, Non-Inverting, Planting Load Driver  1.04407 Single, Non-Inverting, Planting Load Driver  1.04407 Dual, Inverting/Non-Inverting/Combo, Also Available in High-Performance "A" Version  2.0A Peak Output Current, Low Side Driver  1.04412/N Single, Inverting/Non-Inverting/Combo, Also Available in High-Performance "A" Version  2.0A Peak Output Current, Low Side Driver  1.041412/N Single, Inverting/Non-Inverting  3.0A Peak Output Current, Low Side Driver  1.041412/N Single, Inverting/Non-Inverting  3.0A Peak Output Current, Low Side Driver  1.04143/N Single, Inverting/Non-Inverting  5.0A Peak Output Current, Low Side Driver  1.0429 Single, Inverting/Non-Inverting  5.0A Peak Output Current, Low Side Driver  1.0429 Single, Inverting/Non-Inverting  5.0A Peak Output Current, Low Side Driver  1.0429 Single, Inverting/Non-Inverting  5.0A Peak Output Current, Low Side Driver  1.0429 Single, Inverting/Non-Inverting  1.04421/22 Single, Inverti	range input sup The portfolio ha	oply voltages and output currents and offer outstanding latch-up immunity.  as recently been expended with the addition of smaller, surface mount
0.5A Peak Output Current, Low Side Driver TC1.141/N Single, Inverting/Non-inverting 1.0A Peak Output Current, Low Side Driver TC1.141/N Single, Inverting/Non-inverting 1.2A Peak Output Current, Low Side Driver TC1.246/7/8 Dual, Inverting/Non-inverting/Combo TC4.467/8/9 Quad. 2.input Logic Gate Inputs 1.5A Peak Output Current, Low Side Driver TC4.267/7/8 Dual, Inverting/Non-inverting/Combo TC4.467/8/9 Dual, Inverting/Non-inverting/Combo TC4.467/7/8 Dual, Inverting/Non-inverting/Combo TC4.403 Single, Non-inverting, Flooring Load Driver TC4.404/OS Dual, Inverting/Non-inverting TC4.404/OS Dual, Inverting/Non-inverting TC4.405 Single, Inverting/Non-inverting TC4.406/7/8 Dual, Inverting/Non-inverting TC4.407/8 Dual, Inverting/Non-inverting TC4.408/7/8 Dual, Inverting/Non-inverting TC4.409 Single, Inverting/Non-inverting TC4.412/N Single, Inverting/Non-inverting TC4.423/4/5 Dual, Inverting/Non-inverting TC4.423/4/5 Dual, Inverting/Non-inverting TC4.423/4/5 Dual, Inverting/Non-inverting TC4.423/4/5 Dual, Inverting/Non-inverting TC4.420/29 Single, Inverting/Non-inverting TC4.421/22 Single,		
T.C.14.10/N Single, Inverting/Non-Inverting  1.08 Peak Output Current, Low Side Driver  T.C.14.11/N Single, Inverting/Non-Inverting  1.28 Peak Output Current, Low Side Driver  T.C.14.26/7/8 Quad, 2-Input Logic Gate Inputs  1.58 Peak Output Current, Low Side Driver  T.C.426/7/8 Dual, Inverting/Non-Inverting/Combo  T.C.4467/8/9 Quad, 2-Input Logic Gate Inputs  1.58 Peak Output Current, Low Side Driver  T.C.426/7/8 Dual, Inverting/Non-Inverting/Combo  T.C.4404/OS Dual, Inverting/Non-Inverting Load Driver  T.C.4404/OS Dual, Inverting/Non-Inverting/Combo, Also Available in High-Performance "A" Version  2.00 Peak Output Current, Low Side Driver  T.C.14.12/N Single, Inverting/Non-Inverting  3.00 Peak Output Current, Low Side Driver  T.C.14.13/N Single, Inverting/Non-Inverting  T.C.44.23/4/S Dual, Inverting/Non-Inverting  T.C.44.23/4/S Single, Inverting/Non-Inverting  T.C.44.23/4/S Single, Inverting/Non-Inverting  T.C.44.23/4/S Single, Inverting/Non-Inverting  T.C.44.23/4/S Single, Inverting/Non-Inverting  T.C.44.23/2 Single, Inverting/Non-Inverting  T.C.44.23/2 Single, Inverting/Non-Inverting, Also Available in High-Performance "A" Version  T.C.44.23/2 Single, Inverting/Non-Inverting, Also Available in High-Performance "A" Version  T.C.44.23/2 Single, Inverting/Non-Inverting  T.C.44.23/2 Single, Inverting/Non-I		•
1.0.4 Peak Output Current, Low Side Driver  TC1.426/7/8 Dual, Inverting/Non-Inverting 1.2.4 Peak Output Current, Low Side Driver  TC1.426/7/8 Dual, Inverting/Non-Inverting/Combo  TC4.467/8/9 Quad, 2-input Logic Gate Inputs  1.5.4 Peak Output Current, Low Side Driver  TC4.403 Single, Non-Inverting, Floating Load Driver  TC4.404/05 Dual, Inverting/Non-Inverting/Combo, Also Available in High-Performance "A" Version  2.0.4 Peak Output Current, Low Side Driver  TC1.412/N Single, Inverting/Non-Inverting 3.0.4 Peak Output Current, Low Side Driver  TC1.412/N Single, Inverting/Non-Inverting 3.0.6 Peak Output Current, Low Side Driver  TC1.413/N Single, Inverting/Non-Inverting 3.0.7 Peak Output Current, Low Side Driver  TC1.413/N Single, Inverting/Non-Inverting/Combo  6.0.8 Peak Output Current, Low Side Driver  TC4.29 Single, Inverting/Non-Inverting  TC4.420/29 Single, Inverting/Non-Inverting  TC4.420/29 Single, Inverting/Non-Inverting  TC4.421/22 Single, Inverting/Non-Inverting  TC4.421/22 Single, Inverting/Non-Inverting  1.5.4 Peak Output Current, Low Side Driver  TC4.421/22 Single, Inverting/Non-Inverting  1.5.5 Peak Output Current, Low Side Driver  TC4.421/22 Single, Inverting/Non-Inverting  1.5.6 Peak Output Current, High Side/Low Side Drivers  TC4.421/22 Single, Inverting/Non-Inverting  TC4.421/22 Single, Inverting/Non-Invert		,
TC1411/N Single, Inverting/Non-Inverting 12A Peak Output Current, Low Side Driver TC1426/7/8 Quad, 2-input Logic Gate Inputs 15A Peak Output Current, Low Side Driver TC426/7/8 Dual, Inverting/Non-Inverting/Combo TC4403 Single, Non-Inverting, Floating Load Driver TC4426/7/8 Dual, Inverting/Non-Inverting/Combo TC44003 Single, Non-Inverting, Floating Load Driver TC4404005 Dual, Inverting/Non-Inverting/Combo, Also Available in High-Performance "A' Version TC4426/7/8 Dual, Inverting/Non-Inverting TC4426/7/8 Dual, Inverting/Non-Inverting 3.04 Peak Output Current, Low Side Driver TC14112/N Single, Inverting/Non-Inverting 3.05 Peak Output Current, Low Side Driver TC1413/N Single, Inverting/Non-Inverting 3.06 Peak Output Current, Low Side Driver TC1413/N Single, Inverting/Non-Inverting/Combo 6.06 Peak Output Current, Low Side Driver TC4420 Single, Inverting TC4420/29 Single, Inverting/Non-Inverting 9.04 Peak Output Current, Low Side Driver TC4420/29 Single, Inverting/Non-Inverting, Also Available in High-Performance "A" Version TC4421/22 Single, Inverting/Non-Inverting 9.04 Peak Output Current, High Side/Low Side Driver TC4421/22 Single, Inverting/Non-Inverting TC4431/3/2 Single, Inverting/Non-Inverting  Voltage Detectors — Voltage Detectors with low quiescent current. WCP111 1 µA Voltage Detector with Output Delay TC452/5 Single, Inverting/Non-Inverting TC451 1 µA Voltage Detector with Output Delay TC52 Dual Channel Voltage Detector TC53 1 µA Voltage Detector with Output Delay TC54 1 µA Voltage Detector with Output Delay TC55 1 µA Voltage Detector with Output Delay TC54 1 µA Voltage Detector with Output Delay TC53 1 µA Voltage Detector with Output Delay TC54 1 µA Voltage Detector with Output Delay TC54 1 µA Voltage Detector with Output Delay TC54 1 µA Voltage Detector with Output Delay TC55 1 µA Voltage Detector with Output Delay TC54 1 µA Voltage Detector with Output Delay TC55 1 µA Voltage Detector with Output Delay TC54 1 µA Voltage Detector with Output Delay TC55 1 µA Voltage Detector with Output Delay TC54 1 µA Vo		
1.24 Peak Output Current, Low Side Driver  TC1.126/7/8 Dual, Inverting/Non-Inverting/Combo  TC4.467/8/9 Quad, 2-input Logic Gate Inputs  1.54 Peak Output Current, Low Side Driver  TC4.26/7/8 Dual, Inverting/Non-Inverting/Combo  TC4.4003 Single, Non-Inverting, Floating Load Driver  TC4.404/05 Dual, Inverting/Non-Inverting  TC4.404/05 Dual, Inverting/Non-Inverting  TC4.404/05 Dual, Inverting/Non-Inverting  TC4.426/7/8 Single, Inverting/Non-Inverting  2.04 Peak Output Current, Low Side Driver  TC1.412/N Single, Inverting/Non-Inverting  3.04 Peak Output Current, Low Side Driver  TC1.412/N Single, Inverting/Non-Inverting  3.05 Peak Output Current, Low Side Driver  TC1.413/N Single, Inverting/Non-Inverting  TC4.423/4/5 Dual, Inverting/Non-Inverting/Combo  6.04 Peak Output Current, Low Side Driver  TC4.29 Single, Inverting/Non-Inverting  TC4.420/29 Single, Inverting/Non-Inverting  9.04 Peak Output Current, Low Side Driver  TC4.421/22 Single, Inverting/Non-Inverting, Also Available in High-Performance  "A" Version  1.54 Peak Output Current, High Side/Low Side Drivers  TC4.66/27 Single, Inverting/Non-Inverting  Voltage Detectors — voltage Detectors with low quiescent current.  MCP112 1 µA Voltage Detector with Open-Drain Output  MCP112 1 µA Voltage Detector with Output Delay  TC55		
TC4426/7/8   Dual, Inverting/Non-Inverting/Combo TC4467/8/9   Quad, 2-input Logic Gate Inputs T.54 Peak Dutput Current, Low Side Driver TC426/7/8   Dual, Inverting, Non-Inverting, Combo TC4404/05   Dual, Inverting, Non-Inverting TC4404/05   Dual, Inverting, Non-Inverting TC4404/07   Dual, Inverting, Non-Inverting TC4426/7/8   Dual, Inverting, Non-Inverting TC4426/7/8   Dual, Inverting, Non-Inverting TC4426/7/8   Dual, Inverting, Non-Inverting TC4426/7/8   Single, Inverting, Non-Inverting 3.04 Peak Output Current, Low Side Driver TC1413/N   Single, Inverting, Non-Inverting 3.04 Peak Output Current, Low Side Driver TC1413/N   Single, Inverting, Non-Inverting TC4423/4/5   Dual, Inverting, Non-Inverting TC4423/4/5   Dual, Inverting, Non-Inverting TC4423/4/5   Single, Inverting, Non-Inverting TC4421/22   Single, Inverting, Non-Inverting TC4421/22   Single, Inverting, Non-Inverting TC4421/22   Single, Inverting, Non-Inverting TC4421/22   Single, Inverting, Non-Inverting TC4431/32   Single, Inverting, Non-Inverting TC543   1 μA Voltage Detector with Output Delay TC540   1 μA Voltage Detector with Output Delay TC541   1 μA Voltage Detector with Output Delay TC542   1 μA Voltage Detector with Output Delay TC543   1 μA Voltage Detector with Output Delay TC544   1 μA Operating Current CMOS Voltage Detector TC53   1 μA Voltage Detector with Output Delay TC544   1 μA Operating Current CMOS Voltage Detector TC554   1 μA Operating Current Output With Modulator Creuits were developed for advanced power supply applications particularly when used in conjunction with a Plo* microcontroller. TC1300   Dual, 150 mA CMOS LD0 with Sele		
TC4467/8/9 Quad. 2-input Logic Gate Inputs 15.4 Peak Output Current, Low Side Driver TC426/7/8 Dual, Inverting/Non-Inverting Combo TC4403 Single, Non-Inverting, Floating Load Driver TC4404/05 Dual, Inverting/Non-Inverting TC4426/7/8 Dual, Inverting/Non-Inverting 2.0A Peak Output Current, Low Side Driver TC1412/N Single, Inverting/Non-Inverting 3.0A Peak Output Current, Low Side Driver TC1413/N Single, Inverting/Non-Inverting TC4423/4/5 Dual, Inverting/Non-Inverting TC4429 Single, Inverting/Non-Inverting TC4420/29 Single, Inverting/Non-Inverting TC4420/29 Single, Inverting/Non-Inverting TC4420/29 Single, Inverting/Non-Inverting TC4421/22 Single, Inverting/Non-Inverting TC4420/27 Single, Inverting/Non-Inverting TC4420/27 Single, Inverting/Non-Inverting TC4420/27 Single, Inverting/Non-Inverting TC4420/27 Single, Inverting/Non-Inverting TC4431/32 Single, Inverting/Non-Inverting TC543 1 µA Voltage Detector with Open-Drain Output TC51 1 µA Voltage Detector with Open-Drain Output TC51 1 µA Voltage Detector with Output Delay TC52 Dual Channel Voltage Detector with Output Delay TC53 1 µA Voltage Detector with Output Delay TC54 1 µA Voltage Detector with Output Delay TC53 1 µA Voltage Detector with Output Delay TC54 1 µA Voltage Detector with Output Delay TC55 Dual Channel Voltage Detector with Output Delay TC56 Dual Channel Voltage Detector with Output Delay TC56 Dual Channel Voltage Detector with Output Delay TC57 Dual Channel Voltage Detector with Output Delay TC58 Dual Notage Dual Chan		· ·
1.54 Peak Output Current, Low Side Driver  TC426/7/8 Dual, Inverting/Non-Inverting/Combo  TC4404/05 Dual, Inverting/Non-Inverting  TC4404/05 Dual, Inverting/Non-Inverting  TC4426/7/8 Dual, Inverting/Non-Inverting  TC4426/7/8 Dual, Inverting/Non-Inverting  TC4426/7/8 Dual, Inverting/Non-Inverting  2.0A Peak Output Current, Low Side Driver  TC1412/N Single, Inverting/Non-Inverting  3.04 Peak Output Current, Low Side Driver  TC1413/N Single, Inverting/Non-Inverting  3.05 Peak Output Current, Low Side Driver  TC1413/N Single, Inverting/Non-Inverting  TC4423/4/5 Dual, Inverting/Non-Inverting  TC4423/4/5 Dual, Inverting/Non-Inverting  TC4420/29 Single, Inverting  TC4420/29 Single, Inverting  TC4420/29 Single, Inverting  TC4420/29 Single, Inverting/Non-Inverting  TC4420/29 Single, Inverting/Non-Inverting  TC4420/20 Single, Inverting/Non-Inverting  TC4420/20 Single, Inverting/Non-Inverting  TC4421/32 Single, Inverting/Non		
Total   Tot		
TC4404/05 Dual, Inverting/Non-Inverting TC4404/05 Dual, Inverting/Non-Inverting/Combo, Also Available in High-Performance "A" Version  2.0A Peak Output Current, Low Side Driver TC1412/N Single, Inverting/Non-Inverting 3.0A Peak Output Current, Low Side Driver TC1413/N Single, Inverting/Non-Inverting 3.0A Peak Output Current, Low Side Driver TC1413/N Single, Inverting/Non-Inverting TC4423/4/5 Dual, Inverting/Non-Inverting TC4423/4/5 Dual, Inverting/Non-Inverting TC4420/29 Single, Inverting Non-Inverting TC429 Single, Inverting Non-Inverting TC429 Single, Inverting Non-Inverting TC4420/29 Single, Inverting/Non-Inverting 9.0A Peak Output Current, Low Side Driver TC4421/22 Single, Inverting/Non-Inverting, Also Available in High-Performance "A" Version 1.5A Peak Output Current, High Side/Low Side Driver TC4421/22 Single, Inverting/Non-Inverting TC4423/32 Single, Inverting/Non-Inverting TC4423/32 Single, Inverting/Non-Inverting TC4423/32 Single, Inverting/Non-Inverting TC4421/22 Single, Inverting/Non-Inverting TC4421/32 Single, Inverting/Non-Inverting, Also Available in High-Performance "Version" TC4421/32 Single, Inverting/Non-Inverting, Also Available in High-Performance "Version" TC4421/32 Single, Inverting/Non-Inverting, Also Available in High-Performance "Version" TC4421/32 Single, Inverting/Non-Inverting, Also		i '
TC4426/7/8 Dual, Inverting/Non-Inverting Combo, Also Available in High-Performance "A" Version  2.0A Peak Output Current, Low Side Driver  TC1412/N Single, Inverting/Non-Inverting  3.0A Peak Output Current, Low Side Driver  TC1413/N Single, Inverting/Non-Inverting  3.0A Peak Output Current, Low Side Driver  TC1413/N Single, Inverting/Non-Inverting  TC4423/4/S Dual, Inverting/Non-Inverting  TC4429 Single, Inverting/Non-Inverting/Combo  6.0A Peak Output Current, Low Side Driver  TC429 Single, Inverting/Non-Inverting  9.0A Peak Output Current, Low Side Driver  TC4421/22 Single, Inverting/Non-Inverting, Also Available in High-Performance "A" Version  1.5A Peak Output Current, High Side/Low Side Driver  TC4421/22 Single, Inverting/Non-Inverting, Also Available in High-Performance "A" Version  1.5A Peak Output Current, High Side/Low Side Drivers  TC4426/27 Single, Inverting/Non-Inverting  Voltage Detectors — Voltage Detector with Open-Drain Output  TC4431/32 Single, Inverting/Non-Inverting  Voltage Detectors — Voltage Detector with Output Delay  TC51 1 μA Voltage Detector with Output Delay  TC51 1 μA Voltage Detector with Output Delay  TC52 Dual Channel Voltage Detector with Output Delay  TC53 1 μA Voltage Detector with Output Delay  TC54 1 μA Operating Current CMOS Voltage Detector  PWM Controllers — Our high-speed Pulse Width Modulator circuits were developed for advanced power supply applications particularly when used in conjunction with a Ple* microcontroller.  MCP1630 Ple* microcontroller "attach" High-Speed Pulse Width Modulator  Power Management Combo ICs — Our space and cost-saving Combo ICs combine supervisor and regulator functions in one IC.  TC1300 CMOS LDO with Shutdown Mode, Bypass and Independent Delay Reset Output  TC1301 Dual CMOS LDO with Shutdown Mode Shutdown and Reset Output  TC1302 Dual 150 mA CMOS LDO with Select Mode Shutdown and Reset Output  TC1303 Dual 150 mA CMOS LDO with Select Mode Shutdown and Reset Output  TC1304 CMOS LDO with Step-Down (Buck), 500 mA Synchronous Regulator PetM/PWM		
Tec4426/7/8  Dual, Inverting/Non-Inverting/Combo, Also Available in High-Performance "A" Version  2.0A Peak Output Current, Low Side Driver  Tc1412/N Single, Inverting/Non-Inverting  3.0A Peak Output Current, Low Side Driver  Tc1413/N Single, Inverting/Non-Inverting  Tc4423/4/5 Dual, Inverting/Non-Inverting  Tc423/4/5 Dual, Inverting/Non-Inverting/Combo  6.0A Peak Output Current, Low Side Driver  Tc429 Single, Inverting Non-Inverting  Tc4420/29 Single, Inverting/Non-Inverting  9.0A Peak Output Current, Low Side Driver  Tc4421/22 Single, Inverting/Non-Inverting, Also Available in High-Performance "A" Version  1.5A Peak Output Current, High Side/Low Side Drivers  Tc4421/22 Single, Inverting/Non-Inverting  1.5A Peak Output Current, High Side/Low Side Drivers  Tc4421/22 Single, Inverting/Non-Inverting  Voltage Detectors — Voltage Detector with Iow quiescent current.  MCP111 1 µA Voltage Detector with Open-Drain Output  MCP112 1 µA Voltage Detector with Open-Drain Output  MCP112 1 µA Voltage Detector with Output Delay  Tc51 1 µA Voltage Detector with Output Delay  Tc52 Dual Channel Voltage Detector  Tc53 1 µA Voltage Detector with Output Delay  Tc54 1 µA Operating Current CMOS Voltage Detector  Tc53 1 µA Voltage Detector with Output Delay  Tc64 1 µA Operating Current CMOS Voltage Detector  Tc53 1 µA Voltage Detector with Output Delay  Tc64 1 µA Operating Current CMOS Voltage Detector  Tc53 1 µA Voltage Detector with Output Delay  Tc64 1 µA Operating Current CMOS Voltage Detector  Tc53 1 µA Voltage Detector with Output Delay  Tc64 1 µA Operating Current CMOS Voltage Detector  Tc53 1 µA Voltage Detector with Output Delay  Tc65 Dual Channel Voltage Detector  Tc50 1 µA Voltage Detector with Output Delay  Tc64 1 µA Operating Current CMOS Voltage Detector  Tc50 1 µA Voltage Detector with Output Delay  Tc65 1 µA CMOS LDO (and Not		
Performance "A" Version  2.0A Peak Output Current, Low Side Driver  TC1412/N Single, Inverting/Non-Inverting  3.0A Peak Output Current, Low Side Driver  TC1413/N Single, Inverting/Non-Inverting  TC4423/4/5 Dual, Inverting/Non-Inverting  TC4423/4/5 Dual, Inverting/Non-Inverting  TC4420/29 Single, Inverting/Non-Inverting  TC4420/29 Single, Inverting/Non-Inverting  TC4420/29 Single, Inverting/Non-Inverting  9.0A Peak Output Current, Low Side Driver  TC4421/22 Single, Inverting/Non-Inverting, Also Available in High-Performance  "A" Version  1.5A Peak Output Current, High Side/Low Side Drivers  TC4421/32 Single, Inverting/Non-Inverting  TC4431/32 Single, Inverting/Non-Inverting  TC4431/32 Single, Inverting/Non-Inverting  TC4431/32 Single, Inverting/Non-Inverting  TC4431/32 Single, Inverting/Non-Inverting  Voltage Detectors — Voltage Detector with Own quiescent current.  MCP111 1 µA Voltage Detector with Open-Drain Output  MCP112 1 µA Voltage Detector with Output Delay  TC52 Dual Channel Voltage Detector  TC53 1 µA Voltage Detector with Output Delay  TC52 Dual Channel Voltage Detector  TC63 1 µA Operating Current CMOS Voltage Detector  PWM Controllers — Our high-speed Pulse Width Modulator circuits were developed for advanced power supply applications particularly when used in conjunction with a PIC* microcontroller.  MCP1630 PIC* microcontroller "attach" High-Speed Pulse Width Modulator  Power Management Combo ICS — Our space and cost-saving Combo ICS combine supervisor and regulator functions in one IC.  TC1300 CMOS LDO with Shutdown Mode, Bypass and Independent Delay Reset Output  TC1301 Dual CMOS LDO (300 mA, 150 mA), with Shutdown Pin, Bypass and Independent Reset Output  TC1305 Dual, 150 mA CMOS LDO with Select Mode M Shutdown and Reset Output  TC1306 Dual, 150 mA CMOS LDO with Select Mode Shutdown and Reset Output  TC1307 Quad, 150 mA CMOS LDO with Select Mode Shutdown and Reset Output  TC1307 PPM/PWM Buck Regulators/Controllers  MCP1651 PPM/PWM Step-Down (Buck), 500 mA Synchronous Regulator  PFM/PWM Buck Reg		
2.0A Peak Output Current, Low Side Driver TC1412/N Single, Inverting/Non-Inverting 3.0A Peak Output Current, Low Side Driver TC1413/N Single, Inverting/Non-Inverting TC1413/N Single, Inverting/Non-Inverting TC1423/4/5 Dual, Inverting/Non-Inverting/Combo 6.0A Peak Output Current, Low Side Driver TC429 Single, Inverting TC4420/29 Single, Inverting TC4420/29 Single, Inverting/Non-Inverting 9.0A Peak Output Current, Low Side Driver TC4421/22 Single, Inverting/Non-Inverting, Also Available in High-Performance "A Version 1.5A Peak Output Current, High Side/Low Side Driver TC4421/22 Single, Inverting/Non-Inverting, Also Available in High-Performance "A Version 1.5A Peak Output Current, High Side/Low Side Drivers TC4626/27 Single, Inverting/Non-Inverting TC4431/32 Single, Inverting/Non-Inverting TC4431/32 Single, Inverting/Non-Inverting TC4431/32 Single, Inverting/Non-Inverting TC4431/32 Single, Inverting/Non-Inverting TC51 1 μA Voltage Detector with Open-Drain Output MCP112 1 μA Voltage Detector with Open-Drain Output TC51 1 μA Voltage Detector with Output Delay TC52 Dual Channel Voltage Detector with Output Delay TC53 1 μA Voltage Detector with Output Delay TC54 1 μA Operating Current CMOS Voltage Detector PWIM Controllers — Our high-speed Pulse Width Modulator circuits were developed for advanced power supply applications particularly when used in conjunction with a Plc* microcontroller. MCP1630 Plc* microcontroller "attach" High-Speed Pulse Width Modulator  Power Management Combo ICs — Our space and cost-saving Combo ICs combine supervisor and regulator functions in one IC. TC1300 CMOS LDO with Shutdown Mode, Bypass and Independent Delay Reset Output TC1301 Dual CMOS LDO (300 mA, 150 mA), with Shutdown Pin, Bypass and Independent Reset Output TC1302 Dual CMOS LDO (300 mA, 150 mA), with Shutdown and Reset Output TC1305 Dual, 150 mA CMOS LDO with Select Mode Shutdown and Reset Output TC1306 Dual, 150 mA CMOS LDO with Select Mode Shutdown and Reset Output TC1307 PFM/PWM Step-Down (Buck), 500 mA Synchronous Regulator	104420/1/8	
TC1412/N   Single, Inverting/Non-Inverting	2.0A Peak Out	
3.0A Peak Output Current, Low Side Driver TC1413/N Single, Inverting/Non-Inverting TC4423/45 Dual, Inverting/Non-Inverting TC4429 Single, Inverting TC4429 Single, Inverting TC4429 Single, Inverting TC4429 Single, Inverting TC4421/22 Single, Inverting/Non-Inverting  9.0A Peak Output Current, Low Side Driver TC4421/22 Single, Inverting/Non-Inverting, Also Available in High-Performance "A" Version  1.5A Peak Output Current, High Side/Low Side Driver TC4421/22 Single, Inverting/Non-Inverting TC4426/27 Single, inverting/Non-Inverting TC4426/27 Single, inverting/Non-Inverting TC4431/32 Single, Inverting/Non-Inverting Voltage Detectors — Voltage Detectors with Iow quiescent current.  MCP111 1 μA Voltage Detector with Open-Drain Output MCP112 1 μA Voltage Detector with Open-Drain Output MCP113 1 μA Voltage Detector with Output Delay TC51 1 μA Voltage Detector with Output Delay TC52 Dual Channel Voltage Detector TC53 1 μA Voltage Detector with Output Delay TC54 1 μA Operating Current CMOS Voltage Detector  PWM Controllers — Our high-speed Pulse Width Modulator circuits were developed for advanced power supply applications particularly when used in conjunction with a PIC* microcontroller  MCP1630 PIC* microcontroller  MCP1630 PIC* microcontroller "attach" High-Speed Pulse Width Modulator  Power Management Combo ICs — Our space and cost-saving Combo ICs combine supervisor and regulator functions in one IC.  TC1300 CMOS LDO with Sutdown Mode, Bypass and Independent Delay Reset Output  TC1301 Dual CMOS LDO (300 mA, 150 mA), with Shutdown Pin, Bypass and Independent Reset Output  TC1305 Dual, 150 mA CMOS LDO with Select Mode ™ Shutdown and Independent Reset Output  TC1306 Pink Modulators/Controllers  TC1307 Quad, 150 mA CMOS LDO with Select Mode Shutdown and Reset Output  TC1308 PFM/PWM Step-Down (Buck), 500 mA Synchronous Regulator  TC1309 PFM/PWM Step-Down (Buck), 500 mA Synchronous Regulator FM/PWM Buck Regulators/Controllers  MCP1601 PFM/PWM Step-Down (Buck), Combination DC/DC Regulator/Controller  TC110 PFM/PWM Step-U		
TC1413/N   Single, Inverting/Non-Inverting/Combo   TC4423/4/5   Dual, Inverting/Non-Inverting/Combo   G.0A Peak Output Current, Low Side Driver   TC429   Single, Inverting   Single, Inverting   Soutput Current, Low Side Driver   TC4421/22   Single, Inverting/Non-Inverting   Soutput Current, Low Side Driver   TC4421/22   Single, Inverting/Non-Inverting, Also Available in High-Performance "A" Version   1.5A Peak Output Current, High Side/Low Side Drivers   TC4421/32   Single, Inverting/Non-Inverting   TC4431/32   Single, Inverting/Non-Inverting   TC4431/32   Single, Inverting/Non-Inverting   TC4431/32   Single, Inverting/Non-Inverting   Voltage Detectors → Voltage Detector with Output   MCP111		
TC4423/4/5 Dual, Inverting/Non-Inverting/Combo 6.0A Peak Output Current, Low Side Driver TC429 Single, Inverting Single, Inverting TC449 Single, Inverting/Non-Inverting 9.0A Peak Output Current, Low Side Driver TC441/22 Single, Inverting/Non-Inverting, Also Available in High-Performance "A" Version 1.5A Peak Output Current, High Side/Low Side Driver TC4421/22 Single, Inverting/Non-Inverting TC4626/27 Single, Inverting/Non-Inverting TC4431/32 Single, Inverting/Non-Inverting TC4431/32 Single, Inverting/Non-Inverting Voltage Detectors — Voltage Detectors with Output MCP111 1 μA Voltage Detector with Open-Drain Output MCP112 1 μA Voltage Detector with Output Delay TC51 1 μA Voltage Detector with Output Delay TC52 Dual Channel Voltage Detector TC53 1 μA Voltage Detector with Output Delay TC54 1 μA Operating Current CMOS Voltage Detector PWIM Controllers — Our high-speed Pulse Width Modulator circuits were developed for advanced power supply applications particularly when used in conjunction with a PIC* microcontroller.  MCP1630 PIC* microcontroller "attach" High-Speed Pulse Width Modulator  Power Management Combo ICs — Our space and cost-saving Combo ICs combine supervisor and regulator functions in one IC.  TC1300 CMOS LDO with Shutdown Mode, Bypass and Independent Delay Reset Output  TC1301 Dual CMOS LDO (300 mA, 150 mA), with Shutdown Pin, Bypass and Independent Reset Output  TC1302 Dual (150 mA CMOS LDO with Select Mode™ Shutdown and Independent Reset Output  TC1305 Dual, 150 mA CMOS LDO with Select Mode Shutdown and Reset Output  TC1306 PFM/PWM Book Regulators — Choose from a variety of switching frequencies with low supply currents in our switching Regulator families.  PFM/PWM Buck Regulators — Choo		·
6.0A Peak Output Current, Low Side Driver TC429 Single, Inverting Single, Inverting 9.0A Peak Output Current, Low Side Driver TC4421/22 Single, Inverting/Non-Inverting 9.0A Peak Output Current, Low Side Driver TC4421/22 Single, Inverting/Non-Inverting, Also Available in High-Performance "A" Version  1.5A Peak Output Current, High Side/Low Side Drivers TC4626/27 Single, Inverting/Non-Inverting TC4431/32 Single, Inverting/Non-Inverting Voltage Detectors — Voltage Detectors with Iow quiescent current.  MCP111 1 μA Voltage Detector with Open-Drain Output MCP112 1 μA Voltage Detector with Output Delay TC51 1 μA Voltage Detector with Output Delay TC52 Dual Channel Voltage Detector TC53 1 μA Voltage Detector with Output Delay TC54 TC54 TC57 TC58 TC58 TC58 TC58 TC59 TC59 TC59 TC59 TC59 TC59 TC59 TC59		
TC429   Single, Inverting   TC4420/29   Single, Inverting   Non-Inverting   9.0A Peak Output Current, Low Side Driver   TC4421/22   Single, Inverting/Non-Inverting, Also Available in High-Performance "A" Version    1.5A Peak Output Current, High Side/Low Side Drivers   TC4626/27   Single, Inverting/Non-Inverting    TC4431/32   Single, Inverting/Non-Inverting    TC4431/32   Single, Inverting/Non-Inverting    Voltage Detectors — Voltage Detectors with low quiescent current.    MCP111		
TC4420/29 Single, Inverting/Non-Inverting  9.0A Peak Output Current, Low Side Driver  TC4421/22 Single, Inverting/Non-Inverting, Also Available in High-Performance "A" Version  1.5A Peak Output Current, High Side/Low Side Drivers  TC4626/27 Single, Inverting/Non-Inverting  TC4431/32 Single, Inverting/Non-Inverting  Voltage Detectors — Voltage Detectors with low quiescent current.  MCP111 1 μA Voltage Detector with Open-Drain Output  MCP112 1 μA Voltage Detector with Push-Pull Output  TC51 1 μA Voltage Detector with Output Delay  TC52 Dual Channel Voltage Detector  TC53 1 μA Voltage Detector With Output Delay  TC54 1 μA Operating Current CMOS Voltage Detector  PWM Controllers — Our high-speed Pulse Width Modulator circuits were developed for advanced power supply applications particularly when used in conjunction with a PIC* microcontroller "attach" High-Speed Pulse Width Modulator  Power Management Combo ICs — Our space and cost-saving Combo ICs combine supervisor and regulator functions in one IC.  TC1300 CMOS LDO with Shutdown Mode, Bypass and Independent Delay Reset Output  TC1301 Dual CMOS LDO (300 mA, 150 mA), with Shutdown Pin, Bypass and Independent Reset Output  TC1302 Dual CMOS LDO (300 mA, 150 mA), with Shutdown Pin, Bypass  TC1305 Dual, 150 mA CMOS LDO with Select Mode Mode Shutdown and Reset Output  TC1306 Dual, 150 mA CMOS LDO with Select Mode Mode Shutdown and Reset Output  TC1307 Quad, 150 mA CMOS LDO with Select Mode Shutdown and Reset Output  TC1308 Dual, 150 mA CMOS LDO with Select Mode Shutdown and Reset Output  TC1309 PFM/PWM Step-Down (Buck), 500 mA Synchronous Regulator  TC140 PFM/PWM Step-Down (Buck), 500 mA Synchronous Regulator  TC150 PFM/PWM Step-Down (Buck), DC/DC Controller  PFM/PWM Buck Regulators/Controllers  MCP1612 Censtant Frequency PWM Step-Down (Buck), 1.0A Synchronous Regulator  PFM/PWM Buck Regulators/Controllers  MCP1620 PFM/PWM Step-Down (Buck) DC/DC Regulator  PFM/PWM Buck Controller PFM/PWM Step-Dup (Boost) DC/DC Regulator  TC125/126 PFM PWPW Step-Up (Boost) DC/DC Regul		·
9.0A Peak Output Current, Low Side Driver TC4421/22 Single, Inverting/Non-Inverting, Also Available in High-Performance "A" Version  1.5A Peak Output Current, High Side/Low Side Drivers TC4626/27 Single, Inverting/Non-Inverting TC4626/27 Single, Inverting/Non-Inverting Voltage Detectors — Voltage Detectors with low quiescent current.  MCP111 1 μA Voltage Detector with Output Depay TC51 1 μA Voltage Detector with Output Delay TC51 1 μA Voltage Detector with Output Delay TC52 Dual Channel Voltage Detector TC53 1 μA Voltage Detector with Output Delay TC54 1 μA Operating Current CMOS Voltage Detector  PWM Controllers — Our high-speed Pulse Width Modulator circuits were developed for advanced power supply applications particularly when used in conjunction with a PIC* microcontroller.  MCP1630 PIC* microcontroller "attach" High-Speed Pulse Width Modulator Power Management Combo ICs — Our space and cost-saving Combo ICs combine supervisor and regulator functions in one IC.  TC1300 CMOS LDO with Shutdown Mode, Bypass and Independent Delay Reset Output  TC1301 Dual CMOS LDO (300 mA, 150 mA), with Shutdown Pin, Bypass and Independent Reset Output  TC1302 Dual CMOS LDO (300 mA, 150 mA), with Shutdown Pin, Bypass TC1305 Dual, 150 mA CMOS LDO with Select Mode™ Shutdown and Independent Reset Output  TC1306 Dual, 150 mA CMOS LDO with Select Mode Shutdown and Reset Output  TC1307 Quad, 150 mA CMOS LDO with Select Mode Shutdown and Reset Output  TC1308 Dual, 150 mA CMOS LDO with Select Mode Shutdown and Reset Output  TC1309 PFM/PWM Step-Down (Buck), 500 mA Synchronous Regulator  TC150 PFM/PWM Step-Down (Buck), 500 mA Synchronous Regulator  TC105 PFM/PWM Step-Down (Buck), DC/DC Controller  PFM/PWM Buck Regulators/Controllers  MCP1661 PFM/PWM Step-Down (Buck), DC/DC Controller  PFM/PWM Buck Regulators/Controllers  MCP1661 PFM/PWM Step-Down (Buck) DC/DC Regulator/Controller  PFM/PWM Buck Controllers  MCP1651 Boost Controller with Low Battery Indicator  MCP1652 Boost Controller with Low Battery Indicator		
TC4421/22  Single, Inverting/Non-Inverting, Also Available in High-Performance 'A' Version  1.5A Peak Output Current, High Side/Low Side Drivers  TC4626/27  Single, Inverting/Non-Inverting  TC4431/32  Single, Inverting/Non-Inverting  Voltage Detectors — Voltage Detectors with low quiescent current.  MCP1.11  1 μA Voltage Detector with Open-Drain Output  MCP1.12  1 μA Voltage Detector with Output Delay  TC51  1 μA Voltage Detector with Output Delay  TC52  Dual Channel Voltage Detector  TC53  1 μA Voltage Detector with Output Delay  TC54  1 μA Voltage Detector with Output Delay  TC55  1 μA Voltage Detector with Output Delay  TC54  1 μA Operating Current CMOS Voltage Detector  PWM Controllers — Our high-speed Pulse Width Modulator circuits were developed for advanced power supply applications particularly when used in conjunction with a PIC* microcontroller "attach" High-Speed Pulse Width Modulator  Power Management Combo ICs — Our space and cost-saving Combo ICs combine supervisor and regulator functions in one IC.  TC1300  CMOS LDO with Shutdown Mode, Bypass and Independent Delay Reset Output  TC1301  Dual CMOS LDO (300 mA, 150 mA), with Shutdown Pin, Bypass and Independent Reset Output  TC1302  Dual CMOS LDO (300 mA, 150 mA), with Shutdown Pin, Bypass  TC1305  Dual, 150 mA CMOS LDO with Select Mode M Shutdown and Reset Output  TC1306  Dual, 150 mA CMOS LDO with Select Mode Shutdown and Reset Output  TC1307  Quad, 150 mA CMOS LDO with Select Mode Shutdown and Reset Output  Switching Regulators — Choose from a variety of switching frequencies with low supply currents in our Switching Regulator families.  PFM/PWM Buck Regulators/Controllers  MCP1601  PFM/PWM Step-Down (Buck) DC/DC Regulator /Controller  TC120  PFM/PWM Step-Down (Buck), 500 mA Synchronous Regulator  TC1150  PFM/PWM Step-Down (Buck) Combination DC/DC Regulator /Controller  PFM/PWM Buck Regulators/Controllers  MCP1612  Constant Frequency PWM Step-Down (Buck), 1.0A Synchronous Regulator  TC1150  PFM/PWM Step-Up (Boost) DC/DC Regulator  TC125/126  PF		
"A" Version  1.54 Peak Output Current, High Side/Low Side Drivers  TC4626/27 Single, Inverting/Non-Inverting  TC4431/32 Single, Inverting/Non-Inverting  TC4431/32 Single, Inverting/Non-Inverting  Voltage Detectors — Voltage Detectors with low quiescent current.  MCP111 1 μA Voltage Detector with Open-Drain Output  MCP112 1 μA Voltage Detector with Push-Pull Output  TC51 1 μA Voltage Detector with Output Delay  TC52 Dual Channel Voltage Detector  TC53 1 μA Voltage Detector with Output Delay  TC54 1 μA Operating Current CMOS Voltage Detector  PWM Controllers — Our high-speed Pulse Width Modulator circuits were developed for advanced power supply applications particularly when used in conjunction with a PIC* microcontroller.  MCP1630 PIC* microcontroller "attach" High-Speed Pulse Width Modulator  Power Management Combo ICs — Our space and cost-saving Combo ICs combine supervisor and regulator functions in one IC.  TC1300 CMOS LDO with Shutdown Mode, Bypass and Independent Delay Reset Output  TC1301 Dual CMOS LDO (300 mA, 150 mA), with Shutdown Pin, Bypass and Independent Reset Output  TC1302 Dual CMOS LDO (300 mA, 150 mA), with Shutdown Pin, Bypass  TC1305 Dual, 150 mA CMOS LDO with Select Mode™ Shutdown and Independent Reset Output  TC1306 Dual, 150 mA CMOS LDO with Select Mode Shutdown and Reset Output  TC1307 Quad, 150 mA CMOS LDO with Select Mode Shutdown and Reset Output  TC1309 To Dual, 150 mA CMOS LDO with Select Mode Shutdown and Reset Output  TC1300 To Dual, 150 mA CMOS LDO with Select Mode Shutdown and Reset Output  TC1301 Dual, Stop mA CMOS LDO with Select Mode Shutdown and Reset Output  TC1302 To Dual, T50 mA CMOS LDO with Select Mode Shutdown and Reset Output  TC1306 To PFM/PWM Step-Down (Buck), 500 mA Synchronous Regulator  TC105 PFM/PWM Step-Down (Buck) DC/DC Controller  TC105 PFM/PWM Step-Down (Buck) DC/DC Controller  TC105 PFM/PWM Step-Down (Buck) Combination DC/DC Regulator/Controller  TC110 PFM/PWM Step-Up (Boost) DC/DC Regulator  TC110 PFM/PWM Step-Up (Boost) DC/DC Regulator  TC115 PFM/PWM St		
TC4626/27 Single, Inverting/Non-Inverting TC4431/32 Single, Inverting/Non-Inverting Voltage Detectors — Voltage Detectors with low quiescent current.  MCP111 1 μA Voltage Detector with Open-Drain Output MCP112 1 μA Voltage Detector with Output Dutput TC51 1 μA Voltage Detector with Output Delay TC52 Dual Channel Voltage Detector TC53 1 μA Voltage Detector with Output Delay TC54 1 μA Operating Current CMOS Voltage Detector TC59 1 μA Operating Current CMOS Voltage Detector TC59 1 μA Operating Current CMOS Voltage Detector PWM Controllers — Our high-speed Pulse Width Modulator circuits were developed for advanced power supply applications particularly when used in conjunction with a PIo* microcontroller.  MCP1630 PIC* microcontroller "attach" High-Speed Pulse Width Modulator Power Management Combo ICs — Our space and cost-saving Combo ICs combine supervisor and regulator functions in one IC.  TC1300 CMOS LDO with Shutdown Mode, Bypass and Independent Delay Reset Output  TC1301 Dual CMOS LDO (300 mA, 150 mA), with Shutdown Pin, Bypass and Independent Reset Output  TC1302 Dual CMOS LDO (300 mA, 150 mA), with Shutdown Pin, Bypass TC1305 Dual, 150 mA CMOS LDO with Select Mode™ Shutdown and Independent Reset Output  TC1306 Dual, 150 mA CMOS LDO with Select Mode Shutdown and Reset Output  TC1307 Quad, 150 mA CMOS LDO with Select Mode Shutdown and Reset Output  TC1308 Dual, 150 mA CMOS LDO with Select Mode Shutdown and Reset Output  TC1309 Dual, 150 mA CMOS LDO with Select Mode Shutdown and Reset Output  TC1300 Dual, 150 mA CMOS LDO with Select Mode Shutdown and Reset Output  TC1301 Dual, 150 mA CMOS LDO with Select Mode Shutdown and Reset Output  TC1301 Dual, 150 mA CMOS LDO with Select Mode Shutdown and Reset Output  TC1301 Dual, 150 mA CMOS LDO with Select Mode Shutdown and Reset Output  TC1302 Dual, 150 mA CMOS LDO with Select Mode Shutdown and Reset Output  TC1303 Dual, 150 mA CMOS LDO with Select Mode Shutdown and Reset Output  TC1304 Dual, 150 mA CMOS LDO COD Code Regulator PFM/PWM Buck Regulators/Controller PFM		
TC4431/32         Single, Inverting/Non-Inverting           Voltage Detectors — Voltage Detectors with low quiescent current.           MCP111         1 μA Voltage Detector with Open-Drain Output           MCP112         1 μA Voltage Detector with Push-Pull Output           TC51         1 μA Voltage Detector with Output Delay           TC52         Dual Channel Voltage Detector           TC53         1 μA Voltage Detector with Output Delay           TC54         1 μA Operating Current CMOS Voltage Detector           PWW Controllers — Our high-speed Pulse Width Modulator circuits were developed for advanced power supply applications particularly when used in conjunction with a PIC* microcontroller.           MCP1630         PIC* microcontroller "attach" High-Speed Pulse Width Modulator           Power Management Combo ICs — Our space and cost-saving Combo ICs combine supervisor and regulator functions in one IC.           TC1300         CMOS LDO with Shutdown Mode, Bypass and Independent Delay Reset Output           TC1301         Dual CMOS LDO (300 mA, 150 mA), with Shutdown Pin, Bypass and Independent Reset Output           TC1302         Dual CMOS LDO (300 mA, 150 mA), with Shutdown Pin, Bypass           TC1303         Dual, 150 mA CMOS LDO with Select Mode ™ Shutdown and Reset Output           TC1304         Dual, 150 mA CMOS LDO with Select Mode Shutdown and Reset Output           TC1305         Dual, 150 mA CMOS LDO with Select Mode Shutd	1.5A Peak Out	put Current, High Side/Low Side Drivers
TC4431/32         Single, Inverting/Non-Inverting           Voltage Detectors — Voltage Detectors with low quiescent current.           MCP111         1 μA Voltage Detector with Open-Drain Output           MCP112         1 μA Voltage Detector with Push-Pull Output           TC51         1 μA Voltage Detector with Output Delay           TC52         Dual Channel Voltage Detector           TC53         1 μA Voltage Detector with Output Delay           TC54         1 μA Operating Current CMOS Voltage Detector           PWW Controllers — Our high-speed Pulse Width Modulator circuits were developed for advanced power supply applications particularly when used in conjunction with a PIC* microcontroller.           MCP1630         PIC* microcontroller "attach" High-Speed Pulse Width Modulator           Power Management Combo ICs — Our space and cost-saving Combo ICs combine supervisor and regulator functions in one IC.           TC1300         CMOS LDO with Shutdown Mode, Bypass and Independent Delay Reset Output           TC1301         Dual CMOS LDO (300 mA, 150 mA), with Shutdown Pin, Bypass and Independent Reset Output           TC1302         Dual CMOS LDO (300 mA, 150 mA), with Shutdown Pin, Bypass           TC1303         Dual, 150 mA CMOS LDO with Select Mode ™ Shutdown and Reset Output           TC1304         Dual, 150 mA CMOS LDO with Select Mode Shutdown and Reset Output           TC1305         Dual, 150 mA CMOS LDO with Select Mode Shutd	TC4626/27	Single, Inverting/Non-Inverting
Voltage Detectors — Voltage Detectors with low quiescent current.  MCP111 1 μA Voltage Detector with Open-Drain Output  MCP112 1 μA Voltage Detector with Push-Pull Output  TC51 1 μA Voltage Detector with Output Delay  TC52 Dual Channel Voltage Detector  TC53 1 μA Voltage Detector with Output Delay  TC54 1 μA Operating Current CMOS Voltage Detector  PWM Controllers — Our high-speed Pulse Width Modulator circuits were developed for advanced power supply applications particularly when used in conjunction with a PIC* microcontroller.  MCP1630 PIC* microcontroller "attach" High-Speed Pulse Width Modulator  Power Management Combo ICs — Our space and cost-saving Combo ICs combine supervisor and regulator functions in one IC.  TC1300 CMOS LDO with Shutdown Mode, Bypass and Independent Delay Reset Output  TC1301 Dual CMOS LDO (300 mA, 150 mA), with Shutdown Pin, Bypass and Independent Reset Output  TC1302 Dual CMOS LDO (300 mA, 150 mA), with Shutdown Pin, Bypass  TC1305 Dual, 150 mA CMOS LDO with Select Mode Mode™ Shutdown and Independent Reset Output  TC1306 Dual, 150 mA CMOS LDO with Select Mode Shutdown and Reset Output  TC1307 Quad, 150 mA CMOS LDO with Select Mode Shutdown and Reset Output  TC3307 Quad, 150 mA CMOS LDO with Select Mode Shutdown and Reset Output  Switching Regulators — Choose from a variety of switching frequencies with low supply currents in our Switching Regulator families.  PFM/PWM Buck Regulators/Controllers  MCP1601 PFM/PWM Step-Down (Buck), 500 mA Synchronous Regulator  TC105 PFM/PWM Step-Down (Buck) Combination DC/DC Regulator/Controller  TC110 PFM/PWM Step-Down (Buck) Combination DC/DC Regulator Controller  TC110 PFM/PWM Step-Dup (Boost) DC/DC Regulator  TC115 PFM/PWM Step-Up (Boost) DC/DC Regulator  TC11651 PFM/PWM Step-Up (Boost) DC/DC Regulator  TC115 PFM/PWM Step-Up (Boost) DC/DC Regulator  TC11651 Boost Controller with Low Battery Indicator  MCP1651 Boost Controller with Low Battery Indicator	TC4431/32	
MCP111 1 μA Voltage Detector with Open-Drain Output MCP112 1 μA Voltage Detector with Push-Pull Output TC51 1 μA Voltage Detector with Output Delay TC52 Dual Channel Voltage Detector TC53 1 μA Voltage Detector with Output Delay TC54 1 μA Operating Current CMOS Voltage Detector TC54 1 μA Operating Current CMOS Voltage Detector  PWM Controllers — Our high-speed Pulse Width Modulator circuits were developed for advanced power supply applications particularly when used in conjunction with a PIC® microcontroller.  MCP1630 PIC® microcontroller.  MCP1630 PIC® microcontroller "attach" High-Speed Pulse Width Modulator  Power Management Combo ICs — Our space and cost-saving Combo ICs combine supervisor and regulator functions in one IC.  TC1300 CMOS LDO with Shutdown Mode, Bypass and Independent Delay Reset Output  TC1301 Dual CMOS LDO (300 mA, 150 mA), with Shutdown Pin, Bypass and Independent Reset Output  TC1302 Dual CMOS LDO (300 mA, 150 mA), with Shutdown Pin, Bypass TC1305 Dual, 150 mA CMOS LDO with Select Mode™ Shutdown and Independent Reset Output  TC1306 Dual, 150 mA CMOS LDO with Select Mode Shutdown and Reset Output  TC1307 Quad, 150 mA CMOS LDO with Select Mode Shutdown and Reset Output  TC1308 Switching Regulators — Choose from a variety of switching frequencies with low supply currents in our Switching Regulator families.  PFM/PWM Buck Regulators/Controllers  MCP1601 PFM/PWM Step-Down (Buck), 500 mA Synchronous Regulator  TC105 PFM/PWM Step-Down (Buck) DC/DC Regulator/Controller  TC120 PFM/PWM Step-Down (Buck) Combination DC/DC Regulator/Controller  PFM/PWM Boost Regulators/Controllers  TC110 PFM/PWM Step-Up (Boost) DC/DC Regulator  PFM/PWM Boost Regulators/Controllers  TC1110 PFM/PWM Step-Up (Boost) DC/DC Regulator  Boost Controllers  MCP1651 Boost Controller with Low Battery Indicator	Voltage De	
MCP112 1 μA Voltage Detector with Push-Pull Output TC51 1 μA Voltage Detector with Output Delay TC52 Dual Channel Voltage Detector TC53 1 μA Voltage Detector with Output Delay TC54 1 μA Voltage Detector with Output Delay TC54 1 μA Voltage Detector with Output Delay TC54 1 μA Operating Current CMOS Voltage Detector  PWM Controllers — Our high-speed Pulse Width Modulator circuits were developed for advanced power supply applications particularly when used in conjunction with a Plc* microcontroller.  MCP1630 PIC* microcontroller "attach" High-Speed Pulse Width Modulator  Power Management Combo ICs — Our space and cost-saving Combo ICs combine supervisor and regulator functions in one IC. TC1300 CMOS LDO with Shutdown Mode, Bypass and Independent Delay Reset Output TC1301 Dual CMOS LDO (300 mA, 150 mA), with Shutdown Pin, Bypass and Independent Reset Output TC1302 Dual CMOS LDO (300 mA, 150 mA), with Shutdown Pin, Bypass TC1305 Dual, 150 mA CMOS LDO with Select Mode Mode Shutdown and Independent Reset Output TC1306 Dual, 150 mA CMOS LDO with Select Mode Shutdown and Reset Output TC1307 Quad, 150 mA CMOS LDO with Select Mode Shutdown and Reset Output TC1307 Quad, 150 mA CMOS LDO with Select Mode Shutdown and Reset Output TC1307 Switching Regulators — Choose from a variety of switching frequencies with low supply currents in our Switching Regulator families.  PFM/PWM Buck Regulators/Controllers MCP1601 PFM/PWM Step-Down (Buck), 500 mA Synchronous Regulator TC105 PFM/PWM Step-Down (Buck) DC/DC Controller TC120 PFM/PWM Step-Down (Buck) Combination DC/DC Regulator/Controller TC110 PFM/PWM Step-Down (Buck) DC/DC Regulator PFM/PWM Boost Regulators/Controllers TC110 PFM/PWM Step-Up (Boost) DC/DC Regulator TC125/126 PFM Step-Up (Boost) DC/DC Regulator TC125/126 PFM Step-Up (Boost) DC/DC Regulator MCP1651 Boost Controller with Low Battery Indicator MCP1652 Boost Controller with Low Battery Indicator		
TC51 1 μA Voltage Detector with Output Delay TC52 Dual Channel Voltage Detector TC53 1 μA Voltage Detector with Output Delay TC54 1 μA Voltage Detector with Output Delay TC54 1 μA Operating Current CMOS Voltage Detector  PWM Controllers — Our high-speed Pulse Width Modulator circuits were developed for advanced power supply applications particularly when used in conjunction with a PIC® microcontroller.  MCP1630 PIC® microcontroller "attach" High-Speed Pulse Width Modulator  Power Management Combo ICs — Our space and cost-saving Combo ICs combine supervisor and regulator functions in one IC.  TC1300 CMOS LDO with Shutdown Mode, Bypass and Independent Delay Reset Output TC1301 Dual CMOS LDO (300 mA, 150 mA), with Shutdown Pin, Bypass and Independent Reset Output TC1302 Dual CMOS LDO (300 mA, 150 mA), with Shutdown Pin, Bypass TC1305 Dual, 150 mA CMOS LDO with Select Mode™ Shutdown and Independent Reset Output TC1306 Dual, 150 mA CMOS LDO with Select Mode Shutdown and Reset Output TC1307 Quad, 150 mA CMOS LDO with Select Mode Shutdown and Reset Output TC1307 Quad, 150 mA CMOS LDO with Select Mode Shutdown and Reset Output TC1307 Quad, 150 mA CMOS LDO with Select Mode Shutdown and Reset Output Switching Regulators — Choose from a variety of switching frequencies with low supply currents in our Switching Regulator families.  PFM/PWM Buck Regulators/Controllers MCP1601 PFM/PWM Step-Down (Buck), 500 mA Synchronous Regulator TC105 PFM/PWM Step-Down (Buck) DC/DC Controller TC120 PFM/PWM Step-Down (Buck) DC/DC Controller TC120 PFM/PWM Step-Down (Buck) Combination DC/DC Regulator/Controller TC115 PFM/PWM Step-Up (Boost) DC/DC Regulator TC115 PFM/PWM Step-Up (Boost) DC/DC Regulator TC115 PFM/PWM Step-Up (Boost) DC/DC Regulator Boost Controllers MCP1651 Boost Controller with Low Battery Indicator MCP1652 Boost Controller with Power Good Indicator		
TC52 Dual Channel Voltage Detector TC53 1 μA Voltage Detector with Output Delay TC54 1 μA Operating Current CMOS Voltage Detector  PWM Controllers — Our high-speed Pulse Width Modulator circuits were developed for advanced power supply applications particularly when used in conjunction with a PIC* microcontroller.  MCP1630 PIC* microcontroller "attach" High-Speed Pulse Width Modulator  Power Management Combo ICs — Our space and cost-saving Combo ICs combine supervisor and regulator functions in one IC.  TC1300 CMOS LDO with Shutdown Mode, Bypass and Independent Delay Reset Output TC1301 Dual CMOS LDO (300 mA, 150 mA), with Shutdown Pin, Bypass and Independent Reset Output TC1302 Dual CMOS LDO (300 mA, 150 mA), with Shutdown Pin, Bypass TC1305 Dual, 150 mA CMOS LDO with Select Mode™ Shutdown and Independent Reset Output TC1306 Dual, 150 mA CMOS LDO with Select Mode Shutdown and Reset Output TC1307 Quad, 150 mA CMOS LDO with Select Mode Shutdown and Reset Output TC1308 Dual, 150 mA CMOS LDO with Select Mode Shutdown and Reset Output TC1309 Switching Regulators — Choose from a variety of switching frequencies with low supply currents in our Switching Regulator families.  PFM/PWM Buck Regulators/Controllers MCP1601 PFM/PWM Step-Down (Buck), 500 mA Synchronous Regulator TC105 PFM/PWM Step-Down (Buck) DC/DC Controller TC120 PFM/PWM Step-Down (Buck) Combination DC/DC Regulator/Controller TC120 PFM/PWM Step-Down (Buck) DC/DC Controller TC110 PFM/PWM Step-Up (Boost) DC/DC Controller TC1110 PFM/PWM Step-Up (Boost) DC/DC Regulator TC125/126 PFM Step-Up (Boost) DC/DC Regulator  Boost Controllers MCP1651 Boost Controller with Low Battery Indicator MCP1652 Boost Controller with Power Good Indicator		
1 μA Voltage Detector with Output Delay TC54 1 μA Operating Current CMOS Voltage Detector  PWM Controllers — Our high-speed Pulse Width Modulator circuits were developed for advanced power supply applications particularly when used in conjunction with a PIC® microcontroller.  MCP1630 PIC® microcontroller "attach" High-Speed Pulse Width Modulator  Power Management Combo ICs — Our space and cost-saving Combo ICs combine supervisor and regulator functions in one IC.  TC1300 CMOS LDO with Shutdown Mode, Bypass and Independent Delay Reset Output  TC1301 Dual CMOS LDO (300 mA, 150 mA), with Shutdown Pin, Bypass and Independent Reset Output  TC1302 Dual CMOS LDO (300 mA, 150 mA), with Shutdown Pin, Bypass TC1305 Dual, 150 mA CMOS LDO with Select Mode™ Shutdown and Independent Reset Output  TC1306 Dual, 150 mA CMOS LDO with Select Mode Shutdown and Reset Output TC1307 Quad, 150 mA CMOS LDO with Select Mode Shutdown and Reset Output  Switching Regulators — Choose from a variety of switching frequencies with low supply currents in our Switching Regulator families.  PFM/PWM Buck Regulators/Controllers  MCP1601 PFM/PWM Step-Down (Buck), 500 mA Synchronous Regulator TC120 PFM/PWM Step-Down (Buck) Combination DC/DC Regulator/Controller TC120 PFM/PWM Step-Down (Buck) Combination DC/DC Regulator/Controller PWM Buck Regulators/Controllers  MCP1612 Constant Frequency PWM Step-Down (Buck), 1.0A Synchronous Regulator PFM/PWM Boost Regulators/Controllers  TC110 PFM/PWM Step-Up (Boost) DC/DC Controller TC115 PFM/PWM Step-Up (Boost) DC/DC Regulator TC125/126 PFM Step-Up (Boost) DC/DC Regulator MCP1650 Step-up (Boost) Controller  MCP1651 Boost Controller with Low Battery Indicator  MCP1652 Boost Controller with Power Good Indicator		
TC54 1 μA Operating Current CMOS Voltage Detector  PWM Controllers — Our high-speed Pulse Width Modulator circuits were developed for advanced power supply applications particularly when used in conjunction with a PIC® microcontroller.  MCP1630 PIC® microcontroller "attach" High-Speed Pulse Width Modulator  Power Management Combo ICs — Our space and cost-saving Combo ICs combine supervisor and regulator functions in one IC.  TC1300 CMOS LDO with Shutdown Mode, Bypass and Independent Delay Reset Output  TC1301 Dual CMOS LDO (300 mA, 150 mA), with Shutdown Pin, Bypass and Independent Reset Output  TC1302 Dual CMOS LDO (300 mA, 150 mA), with Shutdown Pin, Bypass TC1305 Dual, 150 mA CMOS LDO with Select Mode™ Shutdown and Independent Reset Output  TC1306 Dual, 150 mA CMOS LDO with Select Mode Shutdown and Reset Output  TC1307 Quad, 150 mA CMOS LDO with Select Mode Shutdown and Reset Output  TC1307 Quad, 150 mA CMOS LDO with Select Mode Shutdown and Reset Output  Switching Regulators — Choose from a variety of switching frequencies with low supply currents in our Switching Regulator families.  PFM/PWM Buck Regulators/Controllers  MCP1601 PFM/PWM Step-Down (Buck), 500 mA Synchronous Regulator  TC105 PFM/PWM Step-Down (Buck) Combination DC/DC Regulator/Controller  TC120 PFM/PWM Step-Down (Buck) Combination DC/DC Regulator/Controller  TC120 PFM/PWM Step-Down (Buck) Combination DC/DC Regulator/Controller  TC110 PFM/PWM Step-Up (Boost) DC/DC Controller  TC110 PFM/PWM Step-Up (Boost) DC/DC Regulator  TC115 PFM/PWM Step-Up (Boost) DC/DC Regulator  TC115 PFM/PWM Step-Up (Boost) DC/DC Regulator  TC115 PFM/PWM Step-Up (Boost) DC/DC Regulator  TC125/126 PFM Step-Up (Boost) DC/DC Regulator  Boost Controllers  MCP1650 Step-up (Boost) Controller  Boost Controller with Low Battery Indicator  MCP1651 Boost Controller with Power Good Indicator		· ·
PWM Controllers — Our high-speed Pulse Width Modulator circuits were developed for advanced power supply applications particularly when used in conjunction with a PIC® microcontroller.  MCP1630 PIC® microcontroller "attach" High-Speed Pulse Width Modulator Power Management Combo ICs — Our space and cost-saving Combo ICs combine supervisor and regulator functions in one IC.  TC1300 CMOS LDO with Shutdown Mode, Bypass and Independent Delay Reset Output  TC1301 Dual CMOS LDO (300 mA, 150 mA), with Shutdown Pin, Bypass and Independent Reset Output  TC1302 Dual CMOS LDO (300 mA, 150 mA), with Shutdown Pin, Bypass TC1305 Dual, 150 mA CMOS LDO with Select Mode™ Shutdown and Independent Reset Output  TC1306 Dual, 150 mA CMOS LDO with Select Mode Shutdown and Reset Output  TC1307 Quad, 150 mA CMOS LDO with Select Mode Shutdown and Reset Output  Switching Regulators — Choose from a variety of switching frequencies with low supply currents in our Switching Regulator families.  PFM/PWM Buck Regulators/Controllers  MCP1601 PFM/PWM Step-Down (Buck), 500 mA Synchronous Regulator  TC105 PFM/PWM Step-Down (Buck) DC/DC Controller  TC120 PFM/PWM Step-Down (Buck) Combination DC/DC Regulator/Controller  MCP1612 Constant Frequency PWM Step-Down (Buck), 1.0A Synchronous Regulator  PFM/PWM Boost Regulators/Controllers  TC110 PFM/PWM Step-Up (Boost) DC/DC Controller  TC115 PFM/PWM Step-Up (Boost) DC/DC Regulator  TC125/126 PFM Step-Up (Boost) DC/DC Regulator  TC125/126 PFM Step-Up (Boost) DC/DC Regulator  MCP1650 Step-up (Boost) Controller  MCP1651 Boost Controller with Low Battery Indicator  MCP1652 Boost Controller with Power Good Indicator		
developed for advanced power supply applications particularly when used in conjunction with a PIC® microcontroller.  MCP1630 PIC® microcontroller "attach" High-Speed Pulse Width Modulator  Power Management Combo ICs — Our space and cost-saving Combo ICs combine supervisor and regulator functions in one IC.  TC1300 CMOS LDO with Shutdown Mode, Bypass and Independent Delay Reset Output  TC1301 Dual CMOS LDO (300 mA, 150 mA), with Shutdown Pin, Bypass and Independent Reset Output  TC1302 Dual CMOS LDO (300 mA, 150 mA), with Shutdown Pin, Bypass and Independent Reset Output  TC1305 Dual, 150 mA CMOS LDO with Select Mode™ Shutdown and Independent Reset Output  TC1306 Dual, 150 mA CMOS LDO with Select Mode Shutdown and Reset Output  TC1307 Quad, 150 mA CMOS LDO with Select Mode Shutdown and Reset Output  Switching Regulators — Choose from a variety of switching frequencies with low supply currents in our Switching Regulator families.  PFM/PWM Buck Regulators/Controllers  MCP1601 PFM/PWM Step-Down (Buck), 500 mA Synchronous Regulator  TC105 PFM/PWM Step-Down (Buck) DC/DC Controller  TC120 PFM/PWM Step-Down (Buck) Combination DC/DC Regulator/Controller  PWM Buck Regulators/Controllers  MCP1612 Constant Frequency PWM Step-Down (Buck), 1.0A Synchronous Regulator  PFM/PWM Boost Regulators/Controllers  TC110 PFM/PWM Step-Up (Boost) DC/DC Regulator  TC115 PFM/PWM Step-Up (Boost) DC/DC Regulator  TC115 PFM/PWM Step-Up (Boost) DC/DC Regulator  TC125/126 PFM Step-Up (Boost) DC/DC Regulator  Boost Controllers  MCP1650 Step-up (Boost) Controller  MCP1651 Boost Controller with Low Battery Indicator  MCP1652 Boost Controller with Power Good Indicator		
Power Management Combo ICs — Our space and cost-saving Combo ICs combine supervisor and regulator functions in one IC.  TC1300 CMOS LDO with Shutdown Mode, Bypass and Independent Delay Reset Output  TC1301 Dual CMOS LDO (300 mA, 150 mA), with Shutdown Pin, Bypass and Independent Reset Output  TC1302 Dual CMOS LDO (300 mA, 150 mA), with Shutdown Pin, Bypass and Independent Reset Output  TC1305 Dual, 150 mA CMOS LDO with Select Mode™ Shutdown and Independent Reset Output  TC1306 Dual, 150 mA CMOS LDO with Select Mode Shutdown and Reset Output  TC1307 Quad, 150 mA CMOS LDO with Select Mode Shutdown and Reset Output  Switching Regulators — Choose from a variety of switching frequencies with low supply currents in our Switching Regulator families.  PFM/PWM Buck Regulators/Controllers  MCP1601 PFM/PWM Step-Down (Buck), 500 mA Synchronous Regulator  TC105 PFM/PWM Step-Down (Buck) DC/DC Controller  PWM Buck Regulators/Controllers  MCP1612 Constant Frequency PWM Step-Down (Buck), 1.0A Synchronous Regulator  PFM/PWM Boost Regulators/Controllers  TC110 PFM/PWM Step-Up (Boost) DC/DC Regulator  TC115 PFM/PWM Step-Up (Boost) DC/DC Regulator  TC125/126 PFM Step-Up (Boost) DC/DC Regulator  Boost Controllers  MCP1650 Step-up (Boost) Controller  MCP1651 Boost Controller with Low Battery Indicator  MCP1652 Boost Controller with Power Good Indicator	developed for a	dvanced power supply applications particularly when used in conjunction rocontroller.
Combine supervisor and regulator functions in one IC.  TC1300 CMOS LDO with Shutdown Mode, Bypass and Independent Delay Reset Output  TC1301 Dual CMOS LDO (300 mA, 150 mA), with Shutdown Pin, Bypass and Independent Reset Output  TC1302 Dual CMOS LDO (300 mA, 150 mA), with Shutdown Pin, Bypass and Independent Reset Output  TC1305 Dual, 150 mA CMOS LDO with Select Mode™ Shutdown and Independent Reset Output  TC1306 Dual, 150 mA CMOS LDO with Select Mode Shutdown and Reset Output  TC1307 Quad, 150 mA CMOS LDO with Select Mode Shutdown and Reset Output  Switching Regulators — Choose from a variety of switching frequencies with low supply currents in our Switching Regulator families.  PFM/PWM Buck Regulators/Controllers  MCP1601 PFM/PWM Step-Down (Buck), 500 mA Synchronous Regulator  TC105 PFM/PWM Step-Down (Buck) DC/DC Controller  PFM/PWM Buck Regulators/Controllers  MCP1612 Constant Frequency PWM Step-Down (Buck), 1.0A Synchronous Regulator  PFM/PWM Boost Regulators/Controllers  TC110 PFM/PWM Step-Up (Boost) DC/DC Regulator  TC115 PFM/PWM Step-Up (Boost) DC/DC Regulator  TC125/126 PFM Step-Up (Boost) DC/DC Regulator  Boost Controllers  MCP1650 Step-up (Boost) Controller  MCP1651 Boost Controller with Low Battery Indicator  MCP1652 Boost Controller with Power Good Indicator	MCP1630	PIC® microcontroller "attach" High-Speed Pulse Width Modulator
Reset Output  TC1301 Dual CMOS LDO (300 mA, 150 mA), with Shutdown Pin, Bypass and Independent Reset Output  TC1302 Dual CMOS LDO (300 mA, 150 mA), with Shutdown Pin, Bypass  TC1305 Dual, 150 mA CMOS LDO with Select Mode™ Shutdown and Independent Reset Output  TC1306 Dual, 150 mA CMOS LDO with Select Mode Shutdown and Reset Output  TC1307 Quad, 150 mA CMOS LDO with Select Mode Shutdown and Reset Output  Switching Regulators — Choose from a variety of switching frequencies with low supply currents in our Switching Regulator families.  PFM/PWM Buck Regulators/Controllers  MCP1601 PFM/PWM Step-Down (Buck), 500 mA Synchronous Regulator  TC105 PFM/PWM Step-Down (Buck) DC/DC Controller  PWM Buck Regulators/Controllers  MCP1612 Constant Frequency PWM Step-Down (Buck), 1.0A Synchronous Regulator  PFM/PWM Boost Regulators/Controllers  TC110 PFM/PWM Step-Up (Boost) DC/DC Controller  PFM/PWM Step-Up (Boost) DC/DC Regulator  TC115 PFM/PWM Step-Up (Boost) DC/DC Regulator  TC125/126 PFM Step-Up (Boost) DC/DC Regulator  Boost Controllers  MCP1650 Step-up (Boost) Controller  MCP1651 Boost Controller with Low Battery Indicator  MCP1652 Boost Controller with Power Good Indicator		
TC1301 Dual CMOS LDO (300 mA, 150 mA), with Shutdown Pin, Bypass and Independent Reset Output  TC1302 Dual CMOS LDO (300 mA, 150 mA), with Shutdown Pin, Bypass  TC1305 Dual, 150 mA CMOS LDO with Select Mode™ Shutdown and Independent Reset Output  TC1306 Dual, 150 mA CMOS LDO with Select Mode Shutdown and Reset Output  TC1307 Quad, 150 mA CMOS LDO with Select Mode Shutdown and Reset Output  Switching Regulators — Choose from a variety of switching frequencies with low supply currents in our Switching Regulator families.  PFM/PWM Buck Regulators/Controllers  MCP1601 PFM/PWM Step-Down (Buck), 500 mA Synchronous Regulator  TC105 PFM/PWM Step-Down (Buck) DC/DC Controller  TC120 PFM/PWM Step-Down (Buck) Combination DC/DC Regulator/Controller  PWM Buck Regulators/Controllers  MCP1612 Constant Frequency PWM Step-Down (Buck), 1.0A Synchronous Regulator  PFM/PWM Boost Regulators/Controllers  TC110 PFM/PWM Step-Up (Boost) DC/DC Controller  TC115 PFM/PWM Step-Up (Boost) DC/DC Regulator  TC125/126 PFM Step-Up (Boost) DC/DC Regulator  Boost Controllers  MCP1650 Step-up (Boost) Controller  MCP1651 Boost Controller with Low Battery Indicator  MCP1652 Boost Controller with Power Good Indicator	TC1300	
Independent Reset Output  TC1302 Dual CMOS LDO (300 mA, 150 mA), with Shutdown Pin, Bypass  TC1305 Dual, 150 mA CMOS LDO with Select Mode™ Shutdown and Independent Reset Output  TC1306 Dual, 150 mA CMOS LDO with Select Mode Shutdown and Reset Output  TC1307 Quad, 150 mA CMOS LDO with Select Mode Shutdown and Reset Output  Switching Regulators — Choose from a variety of switching frequencies with low supply currents in our Switching Regulator families.  PFM/PWM Buck Regulators/Controllers  MCP1601 PFM/PWM Step-Down (Buck), 500 mA Synchronous Regulator  TC105 PFM/PWM Step-Down (Buck) DC/DC Controller  TC120 PFM/PWM Step-Down (Buck) Combination DC/DC Regulator/Controller  PWM Buck Regulators/Controllers  MCP1612 Constant Frequency PWM Step-Down (Buck), 1.0A Synchronous Regulator  PFM/PWM Boost Regulators/Controllers  TC110 PFM/PWM Step-Up (Boost) DC/DC Controller  TC115 PFM/PWM Step-Up (Boost) DC/DC Regulator  TC125/126 PFM Step-Up (Boost) DC/DC Regulator  Boost Controllers  MCP1650 Step-up (Boost) Controller  MCP1651 Boost Controller with Low Battery Indicator  MCP1652 Boost Controller with Power Good Indicator		
TC1302 Dual CMOS LDO (300 mA, 150 mA), with Shutdown Pin, Bypass TC1305 Dual, 150 mA CMOS LDO with Select Mode™ Shutdown and Independent Reset Output TC1306 Dual, 150 mA CMOS LDO with Select Mode Shutdown and Reset Output TC1307 Quad, 150 mA CMOS LDO with Select Mode Shutdown and Reset Output Switching Regulators — Choose from a variety of switching frequencies with low supply currents in our Switching Regulator families.  PFM/PWM Buck Regulators/Controllers MCP1601 PFM/PWM Step-Down (Buck), 500 mA Synchronous Regulator TC105 PFM/PWM Step-Down (Buck) DC/DC Controller TC120 PFM/PWM Step-Down (Buck) Combination DC/DC Regulator/Controller PWM Buck Regulators/Controllers MCP1612 Constant Frequency PWM Step-Down (Buck), 1.0A Synchronous Regulator PFM/PWM Boost Regulators/Controllers TC110 PFM/PWM Step-Up (Boost) DC/DC Controller TC115 PFM/PWM Step-Up (Boost) DC/DC Regulator TC125/126 PFM Step-Up (Boost) DC/DC Regulator Boost Controllers MCP1650 Step-up (Boost) Controller MCP1651 Boost Controller with Low Battery Indicator MCP1652 Boost Controller with Power Good Indicator	TC1301	
TC1305 Dual, 150 mA CMOS LDO with Select Mode™ Shutdown and Independent Reset Output TC1306 Dual, 150 mA CMOS LDO with Select Mode Shutdown and Reset Output TC1307 Quad, 150 mA CMOS LDO with Select Mode Shutdown and Reset Output  Switching Regulators — Choose from a variety of switching frequencies with low supply currents in our Switching Regulator families.  PFM/PWM Buck Regulators/Controllers  MCP1601 PFM/PWM Step-Down (Buck), 500 mA Synchronous Regulator TC105 PFM/PWM Step-Down (Buck) DC/DC Controller  TC120 PFM/PWM Step-Down (Buck) Combination DC/DC Regulator/Controller  PFM/Buck Regulators/Controllers  MCP1612 Constant Frequency PWM Step-Down (Buck), 1.0A Synchronous Regulator  PFM/PWM Boost Regulators/Controllers  TC110 PFM/PWM Step-Up (Boost) DC/DC Controller  TC115 PFM/PWM Step-Up (Boost) DC/DC Regulator  TC125/126 PFM Step-Up (Boost) DC/DC Regulator  Boost Controllers  MCP1650 Step-up (Boost) Controller  MCP1651 Boost Controller with Low Battery Indicator  MCP1652 Boost Controller with Power Good Indicator	T04000	
Independent Reset Output  TC1306 Dual, 150 mA CMOS LDO with Select Mode Shutdown and Reset Output  TC1307 Quad, 150 mA CMOS LDO with Select Mode Shutdown and Reset Output  Switching Regulators — Choose from a variety of switching frequencies with low supply currents in our Switching Regulator families.  PFM/PWM Buck Regulators/Controllers  MCP1601 PFM/PWM Step-Down (Buck), 500 mA Synchronous Regulator  TC105 PFM/PWM Step-Down (Buck) DC/DC Controller  TC120 PFM/PWM Step-Down (Buck) Combination DC/DC Regulator/Controller  PWM Buck Regulators/Controllers  MCP1612 Constant Frequency PWM Step-Down (Buck), 1.0A Synchronous Regulator  Regulator  PFM/PWM Boost Regulators/Controllers  TC110 PFM/PWM Step-Up (Boost) DC/DC Controller  TC115 PFM/PWM Step-Up (Boost) DC/DC Regulator  TC125/126 PFM Step-Up (Boost) DC/DC Regulator  Boost Controllers  MCP1650 Step-up (Boost) Controller  MCP1651 Boost Controller with Low Battery Indicator  MCP1652 Boost Controller with Power Good Indicator		
TC1306 Dual, 150 mA CMOS LDO with Select Mode Shutdown and Reset Output TC1307 Quad, 150 mA CMOS LDO with Select Mode Shutdown and Reset Output Switching Regulators — Choose from a variety of switching frequencies with low supply currents in our Switching Regulator families.  PFM/PWM Buck Regulators/Controllers  MCP1601 PFM/PWM Step-Down (Buck), 500 mA Synchronous Regulator TC105 PFM/PWM Step-Down (Buck) DC/DC Controller PFM/PWM Step-Down (Buck) DC/DC Controller PFM/PWM Step-Down (Buck) Combination DC/DC Regulator/Controller PWM Buck Regulators/Controllers  MCP1612 Constant Frequency PWM Step-Down (Buck), 1.0A Synchronous Regulator PFM/PWM Boost Regulators/Controllers  TC110 PFM/PWM Step-Up (Boost) DC/DC Controller PFM/PWM Step-Up (Boost) DC/DC Regulator TC115 PFM/PWM Step-Up (Boost) DC/DC Regulator PFM Step-Up (Boost) DC/DC Regulator PFM Step-Up (Boost) DC/DC Regulator Boost Controllers  MCP1650 Step-up (Boost) Controller MCP1651 Boost Controller with Low Battery Indicator MCP1652 Boost Controller with Power Good Indicator	101302	
TC1307 Quad, 150 mA CMOS LDO with Select Mode Shutdown and Reset Output  Switching Regulators — Choose from a variety of switching frequencies with low supply currents in our Switching Regulator families.  PFM/PWM Buck Regulators/Controllers  MCP1601 PFM/PWM Step-Down (Buck), 500 mA Synchronous Regulator TC105 PFM/PWM Step-Down (Buck) DC/DC Controller TC120 PFM/PWM Step-Down (Buck) Combination DC/DC Regulator/Controller  PWM Buck Regulators/Controllers  MCP1612 Constant Frequency PWM Step-Down (Buck), 1.0A Synchronous Regulator  PFM/PWM Boost Regulators/Controllers  TC110 PFM/PWM Step-Up (Boost) DC/DC Controller  TC111 PFM/PWM Step-Up (Boost) DC/DC Regulator  TC125/126 PFM Step-Up (Boost) DC/DC Regulator  Boost Controllers  MCP1650 Step-up (Boost) Controller  MCP1651 Boost Controller with Low Battery Indicator  MCP1652 Boost Controller with Power Good Indicator	TC1306	
Switching Regulators — Choose from a variety of switching frequencies with low supply currents in our Switching Regulator families.  PFM/PWM Buck Regulators/Controllers  MCP1601 PFM/PWM Step-Down (Buck), 500 mA Synchronous Regulator TC105 PFM/PWM Step-Down (Buck) DC/DC Controller TC120 PFM/PWM Step-Down (Buck) Combination DC/DC Regulator/Controller PWM Buck Regulators/Controllers  MCP1612 Constant Frequency PWM Step-Down (Buck), 1.0A Synchronous Regulator PFM/PWM Boost Regulators/Controllers  TC110 PFM/PWM Step-Up (Boost) DC/DC Controller  TC115 PFM/PWM Step-Up (Boost) DC/DC Regulator TC125/126 PFM Step-Up (Boost) DC/DC Regulator  Boost Controllers  MCP1650 Step-up (Boost) Controller  MCP1651 Boost Controller with Low Battery Indicator MCP1652 Boost Controller with Power Good Indicator		
PFM/PWM Buck Regulators/Controllers  MCP1601 PFM/PWM Step-Down (Buck), 500 mA Synchronous Regulator TC105 PFM/PWM Step-Down (Buck) DC/DC Controller TC120 PFM/PWM Step-Down (Buck) Combination DC/DC Regulator/Controller PWM Buck Regulators/Controllers  MCP1612 Constant Frequency PWM Step-Down (Buck), 1.0A Synchronous Regulator PFM/PWM Boost Regulators/Controllers  TC110 PFM/PWM Step-Up (Boost) DC/DC Controller TC115 PFM/PWM Step-Up (Boost) DC/DC Regulator TC125/126 PFM Step-Up (Boost) DC/DC Regulator  Boost Controllers  MCP1650 Step-up (Boost) Controller MCP1651 Boost Controller with Low Battery Indicator MCP1652 Boost Controller with Power Good Indicator		
MCP1601 PFM/PWM Step-Down (Buck), 500 mA Synchronous Regulator TC105 PFM/PWM Step-Down (Buck) DC/DC Controller TC120 PFM/PWM Step-Down (Buck) Combination DC/DC Regulator/Controller PWM Buck Regulators/Controllers MCP1612 Constant Frequency PWM Step-Down (Buck), 1.0A Synchronous Regulator PFM/PWM Boost Regulators/Controllers TC110 PFM/PWM Step-Up (Boost) DC/DC Controller TC115 PFM/PWM Step-Up (Boost) DC/DC Regulator TC125/126 PFM Step-Up (Boost) DC/DC Regulator Boost Controllers MCP1650 Step-up (Boost) Controller MCP1651 Boost Controller with Low Battery Indicator MCP1652 Boost Controller with Power Good Indicator	supply currents	in our Switching Regulator families.
TC105 PFM/PWM Step-Down (Buck) DC/DC Controller TC120 PFM/PWM Step-Down (Buck) Combination DC/DC Regulator/Controller  PWM Buck Regulators/Controllers  MCP1612 Constant Frequency PWM Step-Down (Buck), 1.0A Synchronous Regulator  PFM/PWM Boost Regulators/Controllers  TC110 PFM/PWM Step-Up (Boost) DC/DC Controller  TC115 PFM/PWM Step-Up (Boost) DC/DC Regulator  TC125/126 PFM Step-Up (Boost) DC/DC Regulator  Boost Controllers  MCP1650 Step-up (Boost) Controller  MCP1651 Boost Controller with Low Battery Indicator  MCP1652 Boost Controller with Power Good Indicator		, ,
TC120 PFM/PWM Step-Down (Buck) Combination DC/DC Regulator/Controller  PWM Buck Regulators/Controllers  MCP1612 Constant Frequency PWM Step-Down (Buck), 1.0A Synchronous Regulator  PFM/PWM Boost Regulators/Controllers  TC110 PFM/PWM Step-Up (Boost) DC/DC Controller  TC115 PFM/PWM Step-Up (Boost) DC/DC Regulator  TC125/126 PFM Step-Up (Boost) DC/DC Regulator  Boost Controllers  MCP1650 Step-up (Boost) Controller  MCP1651 Boost Controller with Low Battery Indicator  MCP1652 Boost Controller with Power Good Indicator		
PWM Buck Regulators/Controllers  MCP1612 Constant Frequency PWM Step-Down (Buck), 1.0A Synchronous Regulator  PFM/PWM Boost Regulators/Controllers  TC110 PFM/PWM Step-Up (Boost) DC/DC Controller  TC115 PFM/PWM Step-Up (Boost) DC/DC Regulator  TC125/126 PFM Step-Up (Boost) DC/DC Regulator  Boost Controllers  MCP1650 Step-up (Boost) Controller  MCP1651 Boost Controller with Low Battery Indicator  MCP1652 Boost Controller with Power Good Indicator		, , , ,
MCP1612 Constant Frequency PWM Step-Down (Buck), 1.0A Synchronous Regulator  PFM/PWM Boost Regulators/Controllers  TC110 PFM/PWM Step-Up (Boost) DC/DC Controller  TC115 PFM/PWM Step-Up (Boost) DC/DC Regulator  TC125/126 PFM Step-Up (Boost) DC/DC Regulator  Boost Controllers  MCP1650 Step-up (Boost) Controller  MCP1651 Boost Controller with Low Battery Indicator  MCP1652 Boost Controller with Power Good Indicator		, , , , , , , , , , , , , , , , , , , ,
Regulator  PFM/PWM Boost Regulators/Controllers  TC110 PFM/PWM Step-Up (Boost) DC/DC Controller  TC115 PFM/PWM Step-Up (Boost) DC/DC Regulator  TC125/126 PFM Step-Up (Boost) DC/DC Regulator  Boost Controllers  MCP1650 Step-up (Boost) Controller  MCP1651 Boost Controller with Low Battery Indicator  MCP1652 Boost Controller with Power Good Indicator		<del>-</del>
PFM/PWM Boost Regulators/Controllers  TC110 PFM/PWM Step-Up (Boost) DC/DC Controller  TC115 PFM/PWM Step-Up (Boost) DC/DC Regulator  TC125/126 PFM Step-Up (Boost) DC/DC Regulator  Boost Controllers  MCP1650 Step-up (Boost) Controller  MCP1651 Boost Controller with Low Battery Indicator  MCP1652 Boost Controller with Power Good Indicator	IVICP1012	
TC110 PFM/PWM Step-Up (Boost) DC/DC Controller TC115 PFM/PWM Step-Up (Boost) DC/DC Regulator TC125/126 PFM Step-Up (Boost) DC/DC Regulator  Boost Controllers MCP1650 Step-up (Boost) Controller MCP1651 Boost Controller with Low Battery Indicator MCP1652 Boost Controller with Power Good Indicator	PFM/PWM PA	3
TC115 PFM/PWM Step-Up (Boost) DC/DC Regulator TC125/126 PFM Step-Up (Boost) DC/DC Regulator  Boost Controllers  MCP1650 Step-up (Boost) Controller  MCP1651 Boost Controller with Low Battery Indicator  MCP1652 Boost Controller with Power Good Indicator		
TC125/126 PFM Step-Up (Boost) DC/DC Regulator  Boost Controllers  MCP1650 Step-up (Boost) Controller  MCP1651 Boost Controller with Low Battery Indicator  MCP1652 Boost Controller with Power Good Indicator		
Boost Controllers       MCP1650     Step-up (Boost) Controller       MCP1651     Boost Controller with Low Battery Indicator       MCP1652     Boost Controller with Power Good Indicator		, , , , , ,
MCP1650     Step-up (Boost) Controller       MCP1651     Boost Controller with Low Battery Indicator       MCP1652     Boost Controller with Power Good Indicator		
MCP1651 Boost Controller with Low Battery Indicator MCP1652 Boost Controller with Power Good Indicator		
MCP1652 Boost Controller with Power Good Indicator		
		·

# **Power Management Solutions**

**System Supervisors** – Microchip's System Supervisors offer excellent low supply current and small packages.

supply current and small packages.		
Part #	Description	
Power Supply Monitors with Reset Generator for 3.3V and 5V Systems		
MCP102	1 μA Voltage Supervisor with Push-Pull Output (SOT-23 & SC-70)	
MCP103	1 μA Voltage Supervisor with Push-Pull Output (SOT-23 & SC-70)	
MCP121	1 μA Voltage Supervisor with Open-Drain Output (SOT-23 & SC-70)	
MCP131	1 µA Voltage Supervisor with Open-Drain Output and Internal Pull-up Resistor (SOT-23 & SC-70)	
TCM809/10	Precision CPU Supervisor (SOT-23 & SC-70)	
MCP809/10	Microcontroller Supervisory Circuit with Push-Pull Output	
TCM811/12	4-pin μP Reset Monitors	
TC1270/71	4-pin μP Reset Monitors	
TC1272/3/4	3-pin Reset Monitors for 5V Systems	
MCP100	Microcontroller Supervisory Circuit with Push-Pull Output	
MCP101	Microcontroller Supervisory Circuit with Push-Pull Output	
MCP120	3-pin Reset with Open Drain Output	
MCP130	3-pin Reset with Open Drain Output and Internal Pull-up	
Power Supply Monitors with Reset Generator, Watch Dog and Manual Reset		
TC32M	3-pin ECONOMONITOR™ Supervisor	
TC1232	Microprocessor Monitor	

# **Interface Solutions**

In addition to microcontrollers with integrated CAN ports, Microchip offers peripherals designed to provide flexible, cost-effective options for implementing complete CAN nodes. Products include stand-alone CAN controllers, CAN input/output expanders and high-speed CAN transceivers.

Microchip offers products to enable customers to add infrared connectivity to their embedded applications. Products include infrared encoder/decoders and IrDA® protocol stack controllers.

Continuing its leadership in LIN (Local Interconnect Network) solutions, the recently introduced MCP201 device, a single-chip LIN bus interface transceiver with an integrated voltage regulator, joins the portfolio of LIN microcontrollers and development tools.

Part #	Description	
MCP2515	Stand-Alone CAN Controller with SPI Interface	
MCP2551	High-Speed CAN Transceiver	
MCP25020/25	CAN Input/Output Expander with Digital I/O and 2 PWM Outputs	
MCP25050/25	CAN Input/Output Expander with Digital I/O, PWM Outputs and A/D Inputs	
<b>Infrared Peri</b>	pherals	
MCP2120	IR Encoder/Decoder, Hardware/Software Baud Rate Selection	
MCP2122	8-pin IR Encoder/Decoder, 16x Clock Input	
MCP2140	Fixed-speed, Low-power IrDA Protocol Handler Plus Bit Encoder/ Decoder	
MCP2150/55	IrDA® Protocol Handler plus Bit Encoder/Decoder	
LIN Transcei	ver	
MCP201	Single-Chip LIN Bus Interface Transceiver with an Integrated Voltage Regulator	
Serial Periph	ierals	
MCP23008/ 23S08	8-bit Input/Output Expanders. Support for both I <sup>2</sup> C and SPI Protocols	
MCP23016	16-bit Input/Output Expander	
MCP23017/ 23S17	16-bit Input/Output Expanders, Support for both I <sup>2</sup> C and SPI Protocols	

<b>Charge Pump DC/DC Converters</b> – Our Charge Pump DC/DC Converters feature inverting and non-inverting voltage doublers and SMT packaging.		
Part #	Description	
Inverters and Do	oublers 20-45 mA Output/Vout = -Vin or +2Vin	
TC1044S	1.5V to 12V Input, Boost Frequency Mode Selection (10 kHz/45 kHz)	
TC7660	1.5V to 10V Input, (10 kHz)	
TC7660H	1.5V to 10V Input, High Frequency (120 kHz)	
TC7662B	1.5V to 15V Input, Boost Frequency Mode Selection (10 kHz/35 kHz)	
TC7660S	1.5V to 12V Input, Boost Frequency Mode Selection (10 kHz/45 kHz)	
TCM828/29	1.5V to 5.5V Input, (12 kHz/35 kHz)	
TC1219/20	1.5V to 5.5V Input with Shutdown (12 kHz/35 kHz)	
TC1221/22	1.8V to 5.5V Input with Shutdown (125 kHz/750 kHz)	
TC1240	2.5V to 4.0V, Positive Doubling CMOS Charge-Pump Voltage Converter with Shutdown (160 kHz)	
TC1240A	2.5V to 5.5V, Positive Doubling CMOS Charge-Pump Voltage Converter with Shutdown (160 kHz)	
TC7662A	3V to 18V Input (12 kHz), Vout = -Vin or +2 Vin	
80-100 mA Out	out Positive Output, Vουτ = -Vιν or +2Vιν	
TC962	3V to 18V Input (12 kHz/24 kHz), 80 mA louт	
TC1121	2.4V to 5.5V Input with Shutdown and Frequency Control Selection (10 kHz/200 kHz), 100 mA output	
Multi Function		
TC682	2.4V to 5.5V Input/up to 10 mA output current (12 kHz) Converter, Vout = -2Vin	
Regulated Posit	ive Converters	
MCP1252/53	2.0V to 5.5V Input, 120 mA lout, Fixed (3.3V or 5.0V), or Adjustable (1.5V to 5.5V) Vout (650 kHz/1.0 MHz)	

# **Battery Management**

Get high accuracy and longer battery operation for your portable designs with Microchip's battery management products offering low reverse leakage current and a wide range of features in small footprint packages. In addition to Microchip's Battery Chargers, the company also offers a portfolio of high-accuracy field-programmable smart battery managers. These PowerSmart® devices offer advanced features to maximize battery operating life and reduce PCB footprint, while minimizing overall system cost and improving time-to-market.

Battery Ch		
Part #	Description	
MCP73826	Single Cell Li-lon/Li-Polymer Charge Management Controller in SOT-23 Package	
MCP73827	Single Cell Li-lon/Li-Polymer Charge Management Controller with Mode Indicator and Charge Current Monitor	
MCP73828	Single Cell Li-lon/Li-Polymer Charge Management Controller with Charge Complete Indicator and Temperature Monitor	
MCP73841	Single Cell Li-Ion/Li-Polymer Charge Management Controller with Charge Status Indicator, Safety Timers and Temperature Monitor	
MCP73842	Dual Cell Li-lon/Li-Polymer Charge Management Controller with Charge Status Indicator, Safety Timers and Temperature Monitor	
MCP73843	Single Cell Li-lon/Li-Polymer Charge Management Controller with Charge Status Indicator and Safety Timers	
MCP73844	Dual Cell Li-lon/Li-Polymer Charge Management Controller with Charge Status Indicator and Safety Timers	
MCP73853	Dual Cell Li-lon/Li-Polymer Charge Management Controller with Charge Status Indicator and Safety Timers	
MCP73855	Dual Cell Li-lon/Li-Polymer Charge Management Controller with Charge Status Indicator and Safety Timers	
MCP73861	Fully Integrated Single Cell Li-Ion/Li-Polymer Charge Management Controller with Charge Status Indicator, Safety Timers and Temperature Monitor	
MCP73862	Fully Integrated Dual Cell Li-lon/Li-Polymer Charge Management Controller with Charge Status Indicator, Safety Timers and Temperature Monitor	

# **Mixed-Signal Solutions**

High performance combined with low cost and low power consumption make our Analog-to-Digital Converters (A/D Converters) ideal for portable instrumentation, embedded control and data acquisition applications. Microchip's portfolio includes Delta-Sigma A/D Converters with up to 22-bit resolution and sampling speeds up to 60 samples per second. Successive Approximation Register (SAR) A/D Converters have 10-, 12- and 13-bit resolutions with sampling rates up to 200 ksps. Also included are Dual Slope A/D Converters with high resolution of up to 17 bits with fully differential inputs, plus BCD and Binary A/D Converters which feature over-range and under-range detection.

Select from low-cost serial D/A Converters, Voltage-to-Frequency Converters (V/F), Frequency-to-Voltage Converters (F/V) and low dropout precision Voltage References that feature low power and high precision. Rounding out Microchip's Mixed-Signal Family are the Single- and Dual-Channel Digital Potentiometers.

System Analog-to-Digital Converters		
Part #	Description	
Delta-Sigma A/D C	Converters	
MCP3551	22-bit, 15 sps, SPI Interface, Single Channel	
MCP3553	22-bit, 60 sps, SPI Interface, Single Channel	
SAR A/D Converte	rs	
MCP3001/2/4/8	10-bit, SPI Interface, Single/Dual/4/8 Input Channel	
MCP3201/2/4/8	12-bit, SPI Interface, Single/Dual/4/8 Input Channel	
MCP3021	10-bit, I <sup>2</sup> C Interface, Low Power, SOT-23 Package, Single Channel	
MCP3221	12-bit, I <sup>2</sup> C Interface, Low Power, SOT-23 Package, Single Channel	
MCP3301/2/4	13-bit, SPI Interface, Single/Dual/4, Differential Input Channel	
Dual Slope A/D Co	onverters	
TC500/A	16-bit/17-bit Front End	
TC510	17-bit Front End	
TC514	17-bit Front End with 4 Channel Input MUX	
TC520A	Serial Interface Adapter for TC500 A/D Converters	
TC530	17-bit, Single Input Channel	
TC534	17-bit, 4 Input Channel	
TC7109/A	12-bit Plus Sign, CMOS Low-Power A/D Converter	
BCD and Binary A		
TC835	4-1/2 Digit, P.C. Data Acquisition A/D Converter	
TC850	15-bit, Fast Integrating, CMOS A/D Converter	
TC7135	4-1/2 Digit, A/D Converter	
TC14433/A	3-1/2 Digit, A/D Converter	
<b>Display Analo</b>	g-to-Digital Converters	
LCD Display - 4-1	/2 Digit	
TC7129	Basic 1-Chip DMM with Hold, Low Battery, Over-Range/	
	Under-Range	
LCD Display - 3-1,	/2 Digit	
TC7106/A	Basic 1-Chip DMM with Internal Reference	
TC7116/A	Plus Hold Function	
TC7126/A	Low Power Basic 1-Chip DMM	
LED Display - 3-1/	<sup>2</sup> Digit	
TC7107/A	Basic 1-Chip DMM with Internal Reference	
TC7117/A	Plus Hold Function	
LED Display - 3-3/	'4 Digit	
TC820	DMM plus Frequency Counter and Logic Probe	
Digital Potent	tiometers	
MCP4021	6-bit Non-volatile Potentiometer with U/D Interface in 8-lead SOIC, MSOP and 2x3 DFN (2, 5, 10, 50 ohm)	
MCP4022	6-bit Non-volatile Rheostat with U/D Interface in 6-lead SOT-23 (2, 5, 10, 50 ohm)	
MCP4023	6-bit Non-volatile Potentiometer in 6-lead SOT-23 (2, 5, 10, 50 ohm)	
MCP4024	6-bit Non-volatile Rheostat in 5-lead SOT-23 (2, 5, 10, 50 ohm)	
MCP41010	10 Kohm, Single with SPI Interface	
MCP42010	10 Kohm, Dual with SPI Interface	
MCP41050	50 Kohm, Single with SPI Interface	
MCP42050	50 Kohm, Dual with SPI Interface	
MCP41100	100 Kohm, Single with SPI Interface	
MCP42100	100 Kohm, Dual with SPI Interface	
Voltage Refer		
MCP1525	2.5V Precision Voltage Reference	
MCP1541	4.096V Precision Voltage Reference	

System D/A	Converters
MCP4921	12-bit Digital-to-Analog Converter with SPI Interface
MCP4922	Dual-channel 12-bit Digital-to-Analog Converter with SPI Interface
MCP4821	12-bit Digital-to-Analog Converter with Internal Voltage Reference and SPI Interface
MCP4822	Dual-channel 12-bit Digital-to-Analog Converter with Internal Voltage Reference and SPI Interface
TC1320/1	8/10-bit Digital-to-Analog Converter with Two-Wire Interface
V/F and F/V	Converters
TC9400/1/2	Precision V/F and F/V Converters

# **Linear Solutions**

Microchip's Operational Amplifier family offers one of the lowest lo for a given GBWP in the industry. All op amps offer rail-to-rail output with many also offering rail-to-rail input. Microchip's family of low power Comparators offers single, dual or quad amplifiers in space-saving packages.

Part #	Description
TC1029	Dual, Low Power Rail-to-Rail Input/Output
TC1030	Quad, Low Power with Shutdown Modes, Rail-to-Rai Input/Output
TC1034/(35)	Single, (Single with Shutdown) Low Power (SOT-23 Package), Rail-to-Rail Input/Output
MCP601/2/(3)/4	Single/Dual/(Single with Chip Select)/Quad, Rail-to-Rail Output
MCP606/7/(8)/9	Single/Dual/(Single with Chip selct)/Quad, Low-Power, Rail-to-Rail Output, Vos<250 $\mu V$
MCP616/17/(18)/19	2.3V Single/Dual/(Single with Chip select)/Quad, Rail-to-Rail Output, Vos<150 µV
MCP6001/2/4	Single/Dual/Quad, 1 MHz 1.8V Dual, Rail-to-Rail Input/Output
MCP6021/22/(23)/24	10 MHz Single/Dual/(Single with Chip Select)/ Quad, Rail-to-Rail Input/Output
MCP6041/42/(43)/44	600 nA, 1.4V, 10 kHz, Single/Dual/(Single with Chip Select)/Quad, Rail-to-Rail Input/Output
MCP6141/42/(43)/44	600 nA, 1.4V, 120 kHz G>10, Single/Dual/(Single with Chip Select)/Quad, Rail-to-Rail Input/Output
MCP6231/32/34	300 kHz, Single/Dual/Quad, Low Power, Rail-to-Rail Input/Output, Extended Temperature
MCP6241/42/44	650 kHz, Single/Dual/Quad, Low Power, Rail-to-Rail Input/Output, Extended Temperature
MCP6271/72/(73)/74/(75)	2 MHz, Single/Dual/(MCP6273 -Single with Chip Select Shutdown)/Quad/(MCP6275 - Dual Connected with Chip Select), Rail-to-Rail Input/ Output, Extended Temperature
MCP6281/82/(83)/84/(85)	5 MHz, Single/Dual/(MCP6283 -Single with Chip Select Shutdown)/Quad/(MCP6285 - Dual Connected with Chip Select), Rail-to-Rail Input/ Output, Extended Temperature
MCP6291/92/(93)/94/(95)	10 MHz, Single/Dual/(MCP6293 -Single with Chip Select Shutdown)/Quad/(MCP6295 - Dual Connected with Chip Select), Rail-to-Rail Input/ Output, Extended Temperature

# Programmable Gain Amplifiers — SPI™ Bus programmable amplifiers with built-in Analog Multiplexer. MCP6S21/2/6/8 Single/Dual/Hex/Octal, Precision Rail-to-Rail Input/Output, Gain and Channel Control over SPI MCP6S91/2/3 Single/Dual/Dual, Low-Cost, Rail-to-Rail Input/Output, Gain and Channel Control over SPI

### Comparators

Several comparators are offered with low supply voltage (1.8) and low supply current  $(1 \mu A)$ . Examples include the **MCP6541**, **TC1039**, **TC1038** and the **MCP6546** family of push-pull and open-drain comparators, which are designed for very low power single-supply applications.

The **MCP6541, TC1039** and **TC1038** families of comparators have a push-pull output that interfaces with CMOS/TTL logic. The output limits supply current surges and dynamic power consumption while switching.

The **MCP6546** family of comparators has an open-drain output that can be pulled up to 10V supply.

The linear building blocks such as **TC1027**, **TC1039** and **TC1041**, have integrated reference voltage and shutdown which makes them ideal for low power portable applications.

# **Analog Design Development Tools**

Microchip strives to offer complete design solutions and that includes innovative and easy-to-use development tools like the free FilterLab® 2.0

Active Filter Software (www.microchip.com), which takes the mystery out of analog and eases the difficult job of active filter design. Or the MXDEV® 1

Analog Evaluation System that makes it easier for system designers to configure the output stage and input signal source and scaling.

Engineers can evaluate, demonstrate and develop interface applications using one of Microchip's kits, such as the MCP2510 CAN Developer's Kit which can be used to demonstrate basic CAN input/output functionality and monitor bus activity on the user's CAN bus. The MCP250XX CAN I/O Expander Developer's Kit includes everything needed to create a CAN-based system using Microchip's CAN I/O expander family. The MCP2120/2150 Infrared Developer's Kit includes everything needed to create a system that communicates using an infrared wireless connection.

Several evaluation kits are also available to support the development and prototyping of Microchip's Brushless DC Fan Controllers and Temperature Sensors, such as the TC642EV and TC650DEMO. You'll find the most current information on our evaluation kits, demonstration boards and development tools for A/D converters, fan controllers, temperature sensors and digital potentiometers and interface devices, as well as electronic selection tools for power MOSFET drivers and LDOs at the Microchip web site: www.microchip.com

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2 Read

Write

MCP2510 Physical La

Phase Seg 1 3

Phase Seg 2

MCP2510 Filters

RXM0 \$AA

RXF0 \$AA

RXF1 \$55

Test Buf 0

Test Identifier: 0

F7 CB EF BE RXM1 \$55

RXF2 \$11

RXF3 \$22

RXF4 \$33

RXF5 \$44

Evaluation, Demonstr	ation and Development Kits	
Order #	Description	Devices Supported
Thermal Management	Demonstration and Evaluation Tools	
MCP9800DM-PCTL	MCP9800 Temperature Sensor PICtail™ Demonstration Board	MCP9800
TC642DEMO	TC64X/64XB Fan Speed Controller Demonstration Board	TC642, TC646, TC647, TC648, TC649
TC642EV	TC64X/64XB Fan Speed Controller Evaluation Board	TC642, TC646, TC647, TC648, TC649
TC650DEMO	TC650 Fan Controller Demonstration Board	TC650
TC72DM-PICTL	TC72 Digital Temperature Sensor PICtail Demonstration Board	TC72
TC77DM-PICTL	TC77 Thermal Sensor PICtail Demonstration Board	TC77
TC1047ADM-PICTL	TC1047A Temperature-to-Voltage Converter PICtail Demonstration Board	TC1047A
TC74DEMP	TC74 Serial Digital Thermal Sensor Demonstration Board	TC74
TC652DEMO	TC652 Fan Controller Demonstration Board	TC652
Linear Demonstration	and Evaluation Tools	
MCP6SX2DM-PCTLTH	MCP6SX2 PGA Thermistor PICtail Demonstration Board	MCP6S22/92
MCP6S22DM-PICTL	MCP6S22 PGA PICtail Demonstration Board	MCP6S22
MCP6SX2DM-PCTLPD	MCP6SX2 PGA Photodiode PICtail Demonstration Board	MCP6S22/92
MCP6S2XEV	MCP6S2X PGA Evaluation Board	MCP6S2X
Mixed Signal Demons	tration and Evaluation Tools	
DVMCPA	MXDEV Analog Evaluation System (Driver Board)	MCP300X, MCP320X, MCP42XXX
DV3201A	MCP3XXX Single/Dual ADC MXDEV Daughter Board	MCP3001, MCP3002, MCP3201, MCP3202
DV3204A	MCP3204/08 MXDEV Daughter Board	MCP3004, MCP3008, MCP3204, MCP3208
DV42XXX	Digital POT Evaluation Kit	MCP42010, MCP42050, MCP42100
MCP402XEV	MCP402X Evaluation Kit with the PIC10F	MCP4021
MXSIGDM	Mixed Signal PICtail Evaluation Board	TC132X, MCP330X, MCP320X, MCP482X, MCP492X, MCP3221, MCP3021, MCP1525
TC3400EV	Sigma-Delta Evaluation Kit	TC340X
Power Management D	emonstration and Evaluation Tools	
MCP7382XEV	MCP7382X Li-Ion Battery Charger Evaluation Board	MCP7382X
MCP7384XEV	MCP7384X Li-lon Battery Charger Evaluation Board	MCP7384X
MCP7386XEV	MCP7386X Li-lon Battery Charger Evaluation Board	MCP7386X
MCP1601EV	MCP1601 Buck Regulator Evaluation Board	MCP1601
MCP1612EV	MCP1612 Synchronous Buck Regulator Evaluation Board	MCP1612
MCP1650EV	MCP1650 Boost Controller Evaluation Board	MCP1650
MCP1650DM-LED1	MCP165X 3W White LED Demonstration Board	MCP1650/51
MCP1630RD-DDBK-1	MCP1630 +12V in Dual Output Buck Converter Reference Design	MCP1630
MCP1630DM-NMC1	MCP1630 NiMH Battery Charger Demonstration Board	MCP1630
MCP1630RD-LIC1	MCP1630 Li-lon Multi-Bay Battery Charger	MCP1630

# **Analog Design Development Tools (Continued)**

Evaluation, Demonstration and Development Kits		
Order #	Description	Devices Supported
CAN Demonstration and Evaluation Tools		
DV251001	MCP2515/2510 CAN Developer's Kit	MCP2515, MCP2510
DV250501	MCP250XX CAN I/O Expanders Development Kit	MCP25020, MCP25025, MCP25050, MCP25055
Infrared Demonstration and Evaluation Tools		
DM163008	MCP2120/2150 Infrared Developer's Kit	MCP2120, MCP2150
MCP215XDM	MCP215X Data Logger Demonstration Board	MCP2150/55
MCP2140DM-TMPSNS	MCP2140 IrDA Wireless Temp Demo	MCP2140
Serial Demonstration and Evaluation Tools		
MCP23X08EV	MCP23X08 Evaluation Board	MCP23008, MCP23S08
General Purpose Evaluation Tools		
VSUPEV	General Purpose Board for easy evaluation of various 3-pin SOT-23 devices	Devices in 3-pin SOT-23 packages
VSUPEV2	General Purpose Board for easy evaluation of various 5- and 6-pin SOT-23 devices	Devices in 5- and 6-pin SOT-23 packages
Software Tool		
FilterLab® 2.0	Active Filter Design Filter Software (Download Free from www.microchip.com)	Op Amps, ADCs

# **Analog Demonstration and Evaluation Kit Examples**

# **Thermal Management Products**

# MCP9800 Thermal Sensor PICtail™ Demo Board

Part Number MCP9800DM-PCTL

The MCP9800 demonstration board illustrates how to interface the MCP9800 to a PICmicro® microcontroller. The board can also be used as a stand-alone module to quickly add thermal sensing capability to any existing application. This basic sensor functionality is implemented on a small Printed Circuit Board (PCB) and an interface via a standard 100 mil header.

# **Power Management Products**



# MCP1650 Boost Controller Evaluation Board

Part Number MCP1650EV

Demonstrates the MCP165X Boost Controller product family in two high-power, boost-converter applications.

# MCP7386X Li-Ion Evaluation Board

Part Number MCP7386XEV

The MCP7386X Evaluation Board is set up to evaluate simple, stand-alone, linear charging of single/dual cell Lithium-lon/Lithium-Polymer battery packs wiith Microchip's MCP73861/2 fully integrated Li-lon/Li-polymer Charge Management Controllers.

# **Interface Products**

# MCP2140 IrDA® Wireless Temp Demo Board

Part Number MCP2140DM-TMPSNS

Demonstrates the MCP2140 device in a real-world application. Shows how to integrate an IrDA® standard port.



# **Mixed-Signal Products**

# **MXDEV®** Analog Evaluation System

**Part Number DVMCPA** 



Versatile, easy-to-use system helps evaluate mixed-signal products. Includes the DVMCPA MCP Driver Board, which provides data acquisition and analysis/display in a Windows® environment.

### **Linear Products**

## MCP6SX2 PGA Photodiode PICtail™ Demo Board

Part Number MCP6SX2DM-PCTLPD

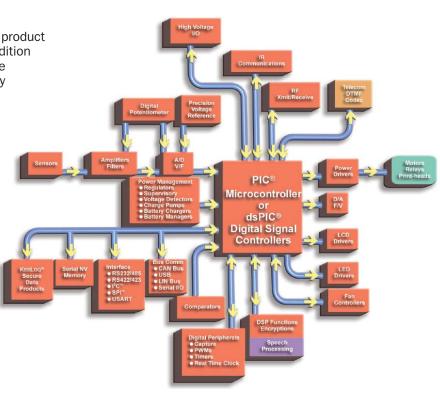
Opens possibilities to process other sensor signals. Increases the number of PIC microcontroller I/O pins available for other purposes. Features a PNZ334 photo-diode, MCP6001U op amp and MCP6S22 and MCP6S92 Programmable Gain Amplifiers (PGA).



# Worldwide Sales & Service

At Microchip, we know that it takes more than product specifications to create loyal customers. In addition to a broad product portfolio, we understand the value of a complete design solution. That's why we maintain a worldwide network of sales and support. Our technical support is unmatched with a global network of experienced field application engineers and technical support personnel ready to provide product and system assistance to help you further streamline your design, prototype and production activities.

Microchip on-line technical support is available at: http://support.microchip.com



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4/20/05



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**MICROCONTROLLERS** DIGITAL SIGNAL CONTROLLERS **ANALOG SERIAL EEPROMS** 

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