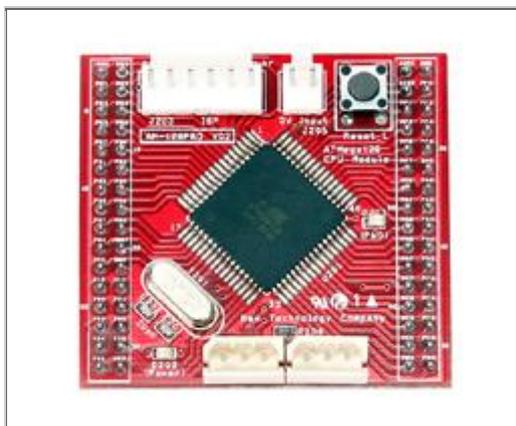


## ▶ AVR 개발 보드



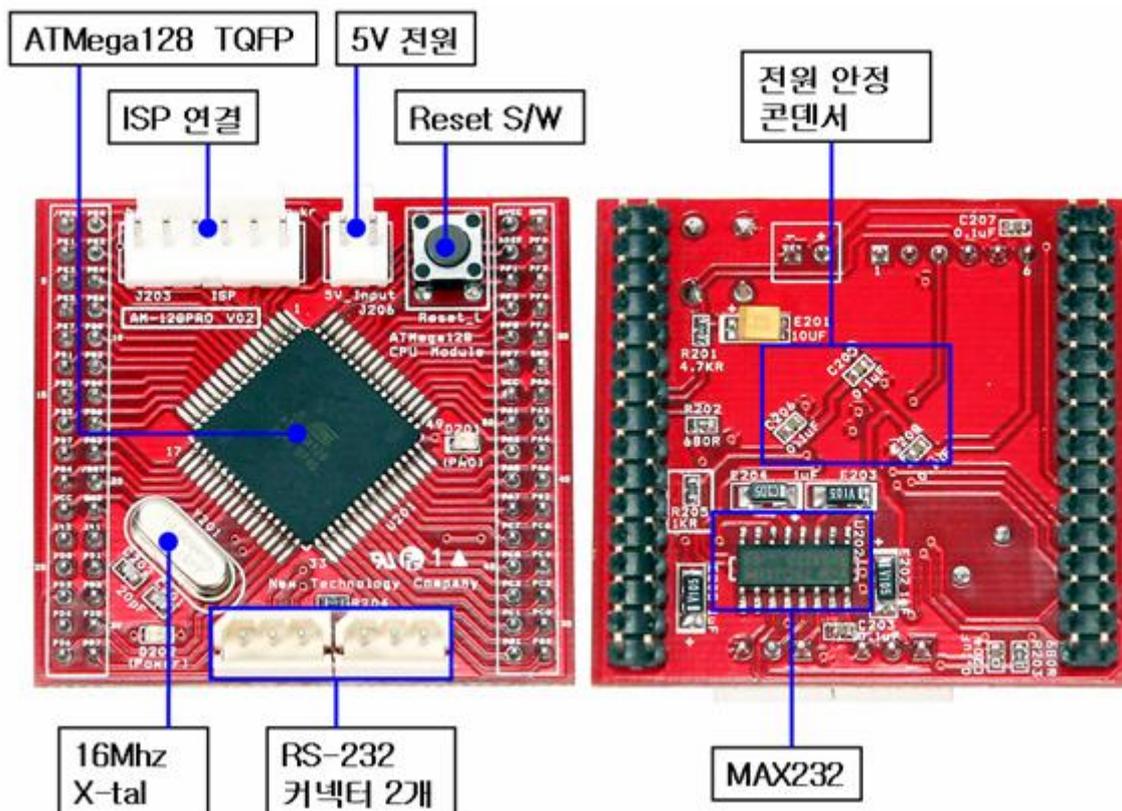
🔍 크게보기

### ▶ AM-128PRO 모듈

- 모델 ▶ AM-128PRO
- 제조사 ▶ (주)뉴티씨(NEWTC)
- 가격 ▶ 22,000 원

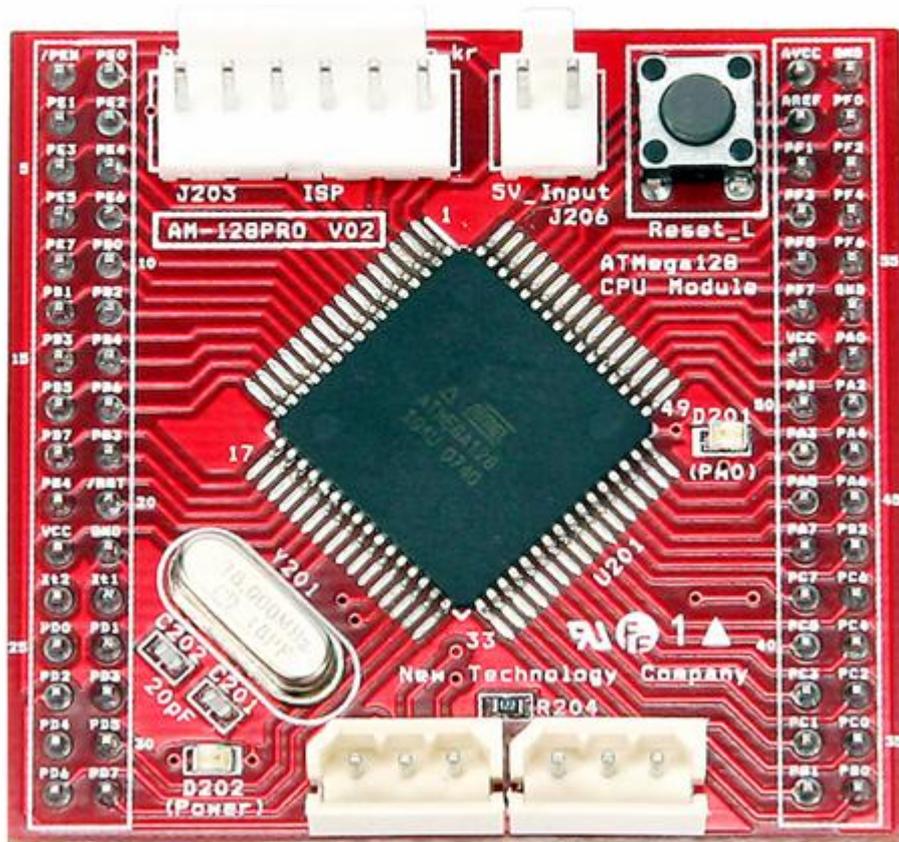
## ▶ 제품 상세 설명

### ▶ AM-128PRO 모듈의 구성

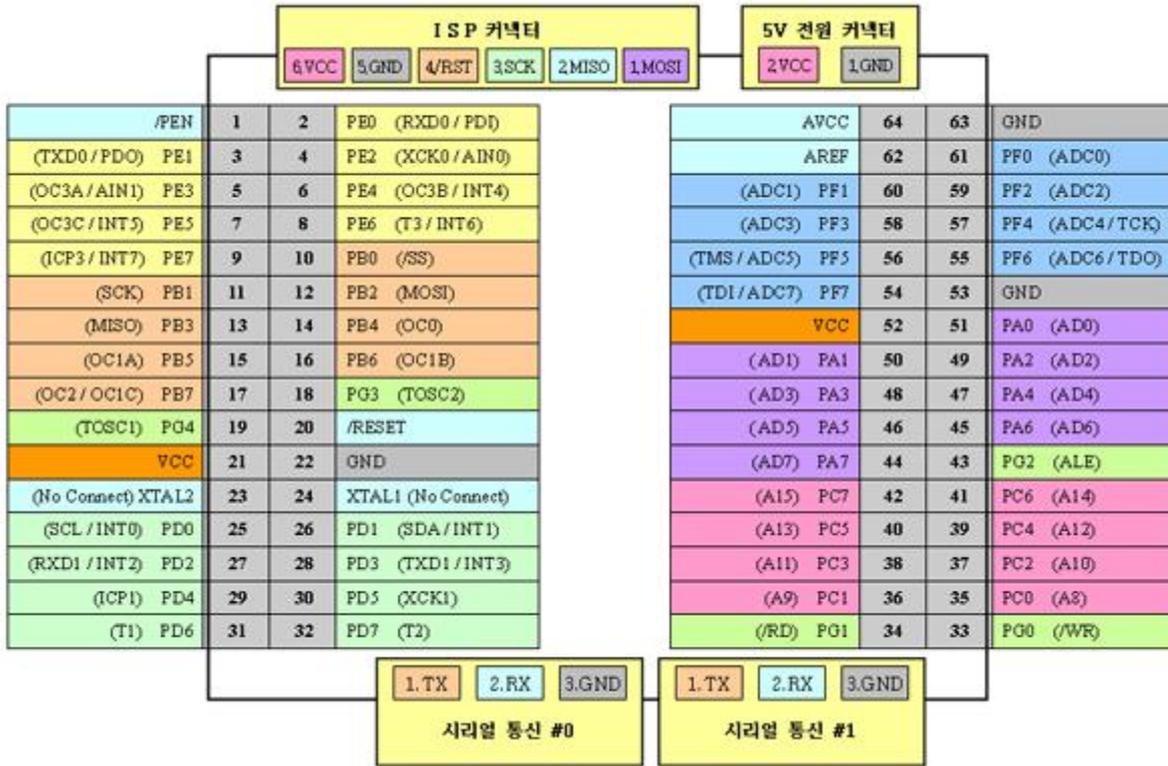


▶ AM-128PRO 모듈의 특징

- ◆ ATMegal28 16AUAVR 마이크로 컨트롤러 사용
- ◆ 2줄짜리 2.54 Header Pin이 양쪽으로 32PIN씩 배치되어 있음
- ◆ MAX232 내장으로 RS-232 통신 가능 UART0, UART1 (별매 Serial Cable 필요)
- ◆ ISP 커넥터, 16Mhz X-tal, Reset S/W, 전원 LED 내장
- ◆ 크기 : 47mm \* 47mm

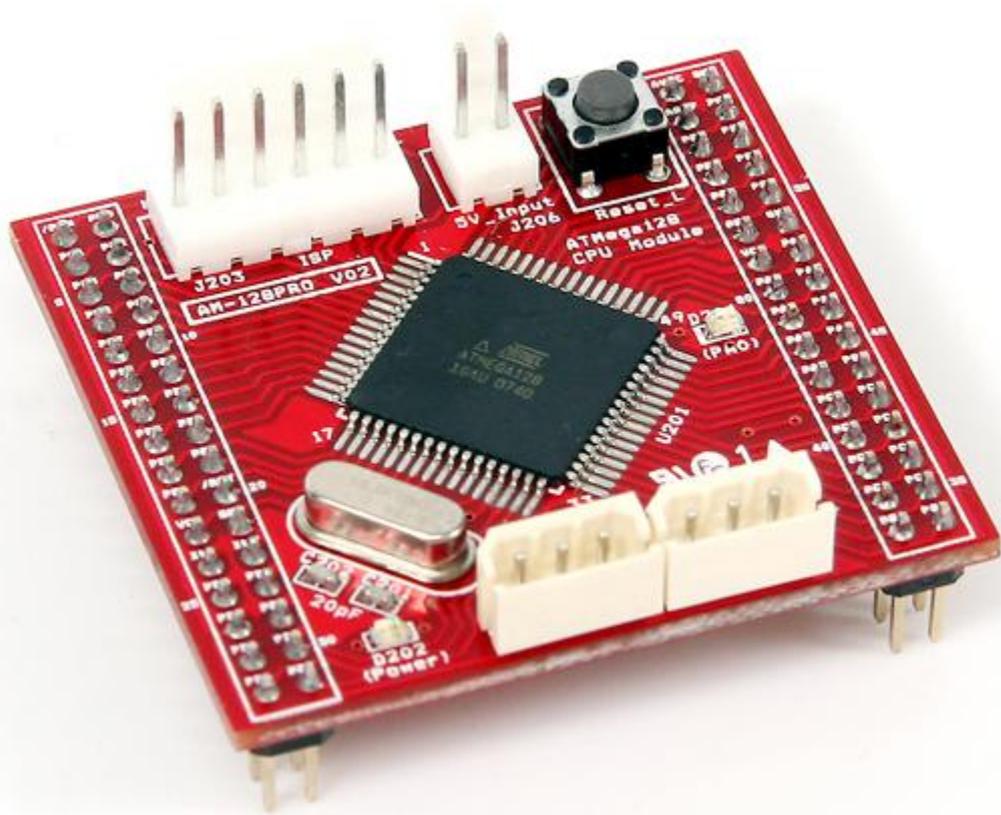


▶ AM-128PRO 모듈 핀 번호

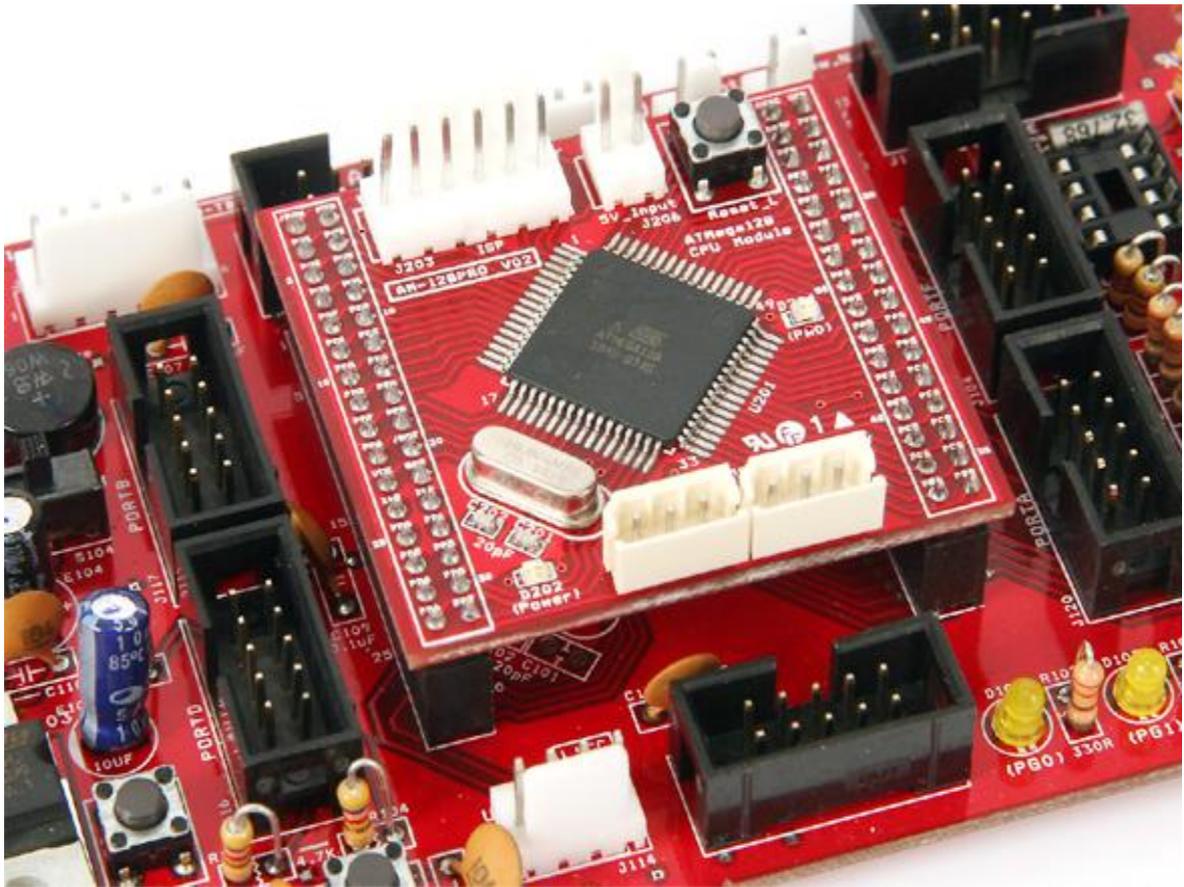


- 그림을 클릭하시면 큰 그림이 나옵니다.

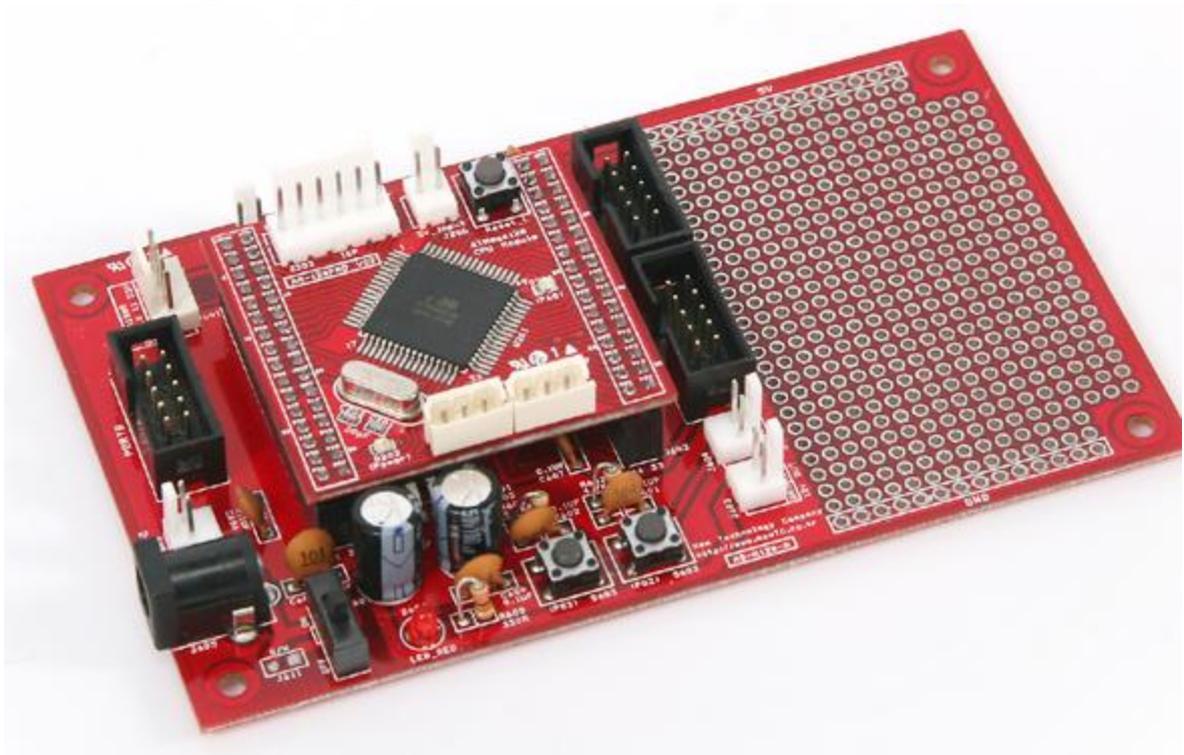
▶ AM-128PRO 모듈 사진



KD-128PRO 개발보드와 연결된 사진



AM-M128-A 개발보드와 연결된 사진



USB-ISP 를 이용하여 프로그램을 다운로드 하는 사진

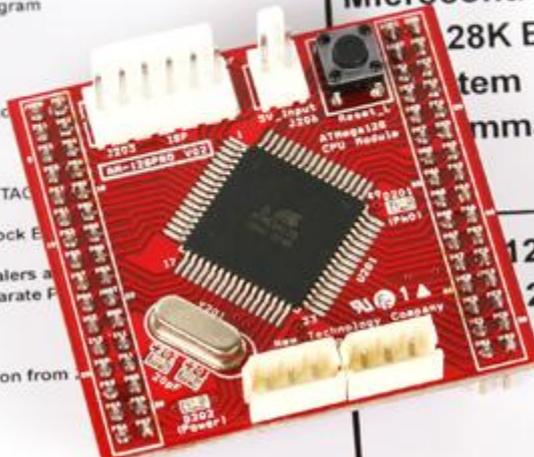


### Features

- High-performance, Low-power AVR® 8-bit Microcontroller
- Advanced RISC Architecture
  - 133 Powerful Instructions - Most Single Clock Cycle Execution
  - 32 x 8 General Purpose Working Registers + Peripheral Control Registers
  - Fully Static Operation
  - Up to 16 MIPS Throughput at 16 MHz
  - On-chip 2-cycle Multiplier
- Nonvolatile Program and Data Memories
  - 128K Bytes of In-System Reprogrammable Flash
    - Endurance: 10,000 Write/Erase Cycles
  - Optional Boot Code Section with Independent Lock Bits
  - In-System Programming by On-chip Boot Program
  - True Read-While-Write Operation
  - 4K Bytes EEPROM
    - Endurance: 100,000 Write/Erase Cycles
  - 4K Bytes Internal SRAM
  - Up to 64K Bytes Optional External Memory Space
  - Programming Lock for Software Security
  - SPI Interface for In-System Programming
- JTAG (IEEE std. 1149.1 Compliant) Interface
  - Boundary-scan Capabilities According to the JTAG
  - Extensive On-chip Debug Support
  - Programming of Flash, EEPROM, Fuses and Lock Bits
- Peripheral Features
  - Two 8-bit Timer/Counters with Separate Prescalers and Dividers
  - Two Expanded 16-bit Timer/Counters with Separate Prescalers and Dividers
  - Capture Mode
  - Real Time Counter with Separate Oscillator
  - Two 8-bit PWM Channels
  - 6 PWM Channels with Programmable Resolution from 8-bit to 10-bit
  - Output Compare Modulator
  - 8-channel, 10-bit ADC
    - 8 Single-ended Channels
    - 7 Differential Channels
    - 2 Differential Channels with Programmable Gain at 1x, 10x, or 200x
  - Byte-oriented Two-wire Serial Interface
  - Dual Programmable Serial USARTs
  - Master/Slave SPI Serial Interface
  - Programmable Watchdog Timer with On-chip Oscillator



8-bit AVR  
Microcontroller  
128K Bytes  
In-System  
Reprogrammable



128  
28L