

Smart Card Readers/Writers – continued

Smart card read/write evaluation kit

COMTECH



Hitag contactless smart card read/write Evaluation Kit

- Provides all of the features of the BIS1701D contactless read module in a simple to use environment
- Includes a boxed read/write unit with 2 internal LED's and connectors that bring out all of the I/O and both the RS232 and RS485 communication ports
- Standard PC RS232 cable and a power supply (UK) are supplied
- To enable the user to access all of the read/write modules powerful features the unit is supplied with a Win 95 GUI on CD rom and 2 Hitag 1 smartcards

OC556

Order Code	Price Each		
	1+	5+	10+
301-8404			

Contactless smart card

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Hitag contactless smart card

- The contactless smartcard is dimensionally compliant with ISO10536.1 and can withstand bending and torsional cycles to ISO7816-1
- Contains a Hitag 1 chip module and integrated rectangular antenna
- Needs no external power to operate, this is derived from the RF field and will operate even in a wallet or pocket
- Contains a 256 byte E2prom memory and crypto processor unit which can be used for enhanced communication security

Hitag 1 features

- Unique 32 bit factory programmed serial number
- 256 byte read/write memory
- Read/write distance up to 700mm (depends on reader antenna)
- Supports both block and page read/write modes
- Manchester encoded data with CRC checking
- Anti-collision encoding for multiscard applications
- Encryption unit for secure data communication (depends on reader)
- Data retention 10 years
- Operating temperature -20°C to +50°C
- Protection IP67

OC561

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	1+	5+	10+
301-8416			

Contact smart card read/write module

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Hitag contact smart card read/write unit (BIS1601A)

- Self-contained module that can communicate with contact smartcards of the ST140x family to provide a means of reading and writing data to the card
- ISO standard contact head the cards are inserted into the reader where contact is made via the card contact pad
- Features an ASCII command set that provides a simple interface to the host via an RS232 bus
- Command set includes features such as card erase, checksum and configurable baud rate
- A 256 byte card can be read in under 1 second
- Simple E2prom devices can be used to store user data for a wide variety of applications including tracking, retail, parking, customer loyalty, leisure and data logging

BIS1601A features

- Reads and writes ISO7816 E2prom memory cards
- ASCII command set
- Single +5v power supply
- RS232 port 600 - 9600 baud
- Operating current during read/write 100mA max.
- Quiescent current 25mA
- E2prom configuration + user data
- Read/writes ST140x memory cards
- Powerful command set reduces host software overhead
- Suitable for applications in industrial, retail and office environments
- Configurable interrupt character on card detection
- Dimensions: 100 x 65 x 22mm

Technical data (BIS1601A read/write module)

Parameter	min	typ	max	units
Read time (256 bytes)			1000	ms
Write time (256 bytes)			2500	ms
Supply voltage	4.75		5.25	V
Supply current operating		100		mA
Baud rate	600		9600	baud
Operating temperature	-10		50	°C

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301-8428			

Contact smart card

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ST1402 contact smart card

- Fully supported by the BIS1601A read/write unit
- Featuring a 256 byte E2prom memory the card uses an I²C bus to communicate the data to the integrated chip via the pad connector
- Compliant with the ISO7816 middle position connector specification and the ISO 10536.1 dimensional specification
- Applications include: subscribers card, electronic access, membership cards, electronic ticketing and data capture

ST14C02 features

- 3.3 to 5.5 volt operation
- 2 wire I²C serial interface
- Byte and multibyte write features
- Page write to 8 bytes
- Byte random and sequential read
- Self timed program cycle
- Automatic address increment
- Enhanced ESD and latch up protection
- 1 Million erase/write cycles
- 10 years data retention

OC562

Order Code	Price Each		
	1+	5+	10+
301-8430			

Barcode Readers - Fixed

Compact Laser Scanner

DATA LOGIC



An ultra compact, high performance and low cost laser scanner ideal for OEMs and other applications where reliability and integration capability are key functions.

- Scanning speed of 500scan/sec
- 0.15mm scan resolution
- Dual serial interface
- Reading range 50 to 220mm
- 4 status LEDs
- IP65 rugged industrial housing
- Ultra compact - 50x40x28mm
- Light weight - 150g
- DC converter - 4-30V dc to 5V dc - required if external 5V dc supply is unavailable
- Software, manuals and brackets are included with scanners
- Use linear scanner for ladder orientation and raster scanner for picket fence orientation

Typical applications include automatic machines, document handling machines, printing verification, packaging machine etc.