

Excellent Integrated System Limited

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Digi International XA-B14-CS3R

For any questions, you can email us directly: <u>sales@integrated-circuit.com</u>



Distributor of Digi International: Excellent Integrated System Limited Datasheet of XA-B14-CS3R - XBEE RS-485 ADAPTER ZNET 2.5 Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com



ZIGBEE ADAPTERS FOR SERIAL AND USB DEVICES

XBEE-PRO[®] ZIGBEE ADAPTERS

Easy-to-use adapters bring wireless connectivity to electronic devices in legacy wired applications

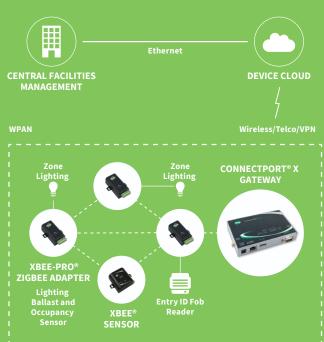
XBee-PRO ZigBee adapters deliver wireless connectivity to electronic devices through advanced mesh networks. These adapters utilize the ZigBee PRO Feature Set, for robust selfhealing, self-configuring networks. They are ideal for wirelessly enabling sensors, controllers and other devices in legacy wired applications, or where a common hardware interface is preferable.

XBee-PRO ZigBee adapters can be battery or mains powered. They are available in a wide range of physical interfaces, including RS-232, RS-485, USB (power harvesting), digital I/O and analog I/O. Built upon XBee-PRO modules, these adapters can be purchased in a broad range of configurations and customized to meet your application needs.

XBee adapters are compatible with ConnectPort[®] X gateways, XBee[®] modules and XBee accessories. This family of hardware, software and management tools provides users with unparalleled flexibility and end-to-end communication between devices.

BENEFITS

- Hardened design with extended operating temperature (-35° C to +74° C) for hazardous locations
- Class 1, Division 2 certified
- Multi-master/Multi-protocol concurrent support for Allen-Bradley and Modbus protocols
- Serial and Ethernet protocol bridging support for Allen-Bradley and Modbus protocols promotes interoperability
- ASCII to protocol translation for Allen-Bradley and Modbus
- Switch selectable RS-232/422/485 serial port



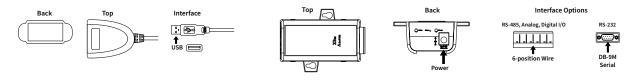
APPLICATION EXAMPLE



SPECIFICATIONS	XBee-PRO [®] ZigBee Adapter	
PERFORMANCE		
RF DATA RATE	250 kbps	
INDOOR/URBAN RANGE	Up to 300 ft (90 m) / 200 ft (60 m) Int'l variant	
OUTDOOR/RF LINE-OF-SIGHT RANGE	Up to 2 miles (3200m) / 5000 ft (1500 m) Int'l variant	
TRANSMIT POWER	63 mW (+18 dBm) / Int'l version	
RECEIVER SENSITIVITY (1% PER)	-102 dBm	
FEATURES		
ANTENNA TYPE	XBee ZB Adapters: Internal Antenna; XBee-PRO ZB Adapters: External RPSMA Antenna	
FREQUENCY BAND	2.4 GHz	
SERIAL DATA INTERFACE	RS-232 DB9M/DTE or RS-485 (6-position wire terminal block) switch selectable between RS-422 half-duplex, RS-422 full duplex and RS-485	
USB DATA INTERFACE	USB 2.0 Full Speed (with ESD protection); connects to host via captive 1-meter cable	
ANALOG IO (AIO) & DIGITAL IO (DIO)	6-position wire terminal block; Analog IO: 0 - 10V, 4 - 20 mA, or +/- 2VDC Differential; Digital IO: Digital Input or sinking driver output	
NETWORKING & SECURITY		
NETWORK TOPOLOGIES	Point-to-point, Point-to-multipoint, Mesh	
NUMBER OF CHANNELS	14	
SPREAD SPECTRUM TYPE	Direct Sequence Spread Spectrum	
FILTRATION OPTIONS	PAN ID, 64-bit MAC, channel	
ADDRESSING	65,000 available addresses for each channel	
OTHER		
LEDS	Power: Glows green when external power is supplied (not active when battery powered to limit power drain) Associate: Blinks when unit is connected and associated on an RF network	
CONTROLS	Device reset (internal push button); Identification (internal push button) - relays ID to gateway	
DIMENSIONS (L X W X H) & WEIGHT	RS-232, RS-485, AlO, DIO models: 3.60 in x 1.90 in x 1.20 in (9.14 cm x 4.82 cm x 3.04 cm) 2.29 oz (64.92 g) USB models: 2.87 in x 1.80 in x 0.83 in (7.29 cm x 4.57 cm x 2.10 cm) 1.60 oz (45.36 g)	
OPERATING TEMPERATURE	-40° C to +70° C	
POWER REQUIREMENTS		
INPUT VOLTAGE	RS-232, RS-485, AlO, DIO models: 3.7-6VDC and 9-30 VDC USB models: Bus powered (+5V) USB Models: Bus Powered (+5V)	
POWER CONSUMPTION	USB: 70 mA Rx and 250 mA Tx (normal operation) / 200 uA (suspend mode)	
REGULATORY APPROVALS		
EMISSIONS	FCC Part 15.247, IC, ETSI/CE, Telec, EN55022 (Class B)	
SAFETY	UL60950, CAN/CSA C22.2 No.60950	
ROHS	Yes	

USB MODEL

RS-232, RS-485, ANALOG, DIGITAL I/O MODELS





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PART NUMBERS	DESCRIPTION
XA-Z14-CE1P-A	XBee-PRO ZB USB adapter, internal wire antenna
XA-Z14-CE1P-W	XBee-PRO ZB USB adapter, internal wire antenna (International)
XA-Z14-CS2PH-A	XBee-PRO RS-232 adapter, external RPSMA antenna included (9 - 30V)
XA-Z14-CS2PH-W	XBee-PRO RS-232 adapter, external RPSMA antenna included (9 - 30V) (International)
XA-Z14-CS3PH-A	XBee-PRO RS-485 adapter, external RPSMA antenna included (9 - 30V)
XA-Z14-CS3PH-W	XBee-PRO RS-485 adapter, external RPSMA antenna included (9 - 30V) (International)
XA-Z14-CS4PH-A	XBee-PRO DIO adapter, external RPSMA antenna included (9 - 30V)
XA-Z14-CS4PH-W	XBee-PRO DIO adapter, external RPSMA antenna included (9 - 30V) (International)
XA-Z14-CS5PH-A	XBee-PRO AIO adapter, external RPSMA antenna included (9 - 30V)
XA-Z14-CS5PH-W	XBee-PRO AIO adapter, external RPSMA antenna included (9 - 30V) (International)

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91001420 E1/915 DIGI INTERNATIONAL WORLDWIDE HQ 877-912-3444 / 952-912-3444 / www.digi.com

DIGI INTERNATIONAL FRANCE +33-1-55-61-98-98 / www.digi.fr

DIGI INTERNATIONAL JAPAN +81-3-5428-0261 / www.digi-intl.co.jp DIGI INTERNATIONAL SINGAPORE +65-6213-5380

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