

SPECIFICATIONS

Legacy Digi XBee® S1 802.15.4

| Legacy Digi XBee-PRO® S1 802.15.4

PERFORMANCE

RF DATA RATE	250 kbps	250 kbps
INDOR/URBAN RANGE	100 ft (30 m)	300 ft (100 m)
OUTDOOR/RF LINE-OF-SIGHT RANGE	300 ft (100 m)	1 mi (1.6 km)
TRANSMIT POWER	1 mW (+0 dBm)	60 mW (+18 dBm)*
RECEIVER SENSITIVITY (1% PER)	-92 dBm	-100 dBm
DIGI HARDWARE	S1	
TRANSCEIVER CHIPSET	Freescale MC13212	

FEATURES

SERIAL DATA INTERFACE	3.3V CMOS UART
CONFIGURATION METHOD	API or AT Commands, local or over-the-air
FREQUENCY BAND	2.4 GHz
INTERFERENCE IMMUNITY	DSSS (Direct Sequence Spread Spectrum)
SERIAL DATA RATE	1200 bps - 250 kbps
ADC INPUTS	(6) 10-bit ADC inputs
DIGITAL I/O	8
ANTENNA OPTIONS	Chip, Wire Whip, U.FL, & RPSMA

NETWORKING & SECURITY

ENCRYPTION	128-bit AES
RELIABLE PACKET DELIVERY	Retries/Acknowledgments
IDS AND CHANNELS	PAN ID, 64-bit IEEE MAC, 16 Channels

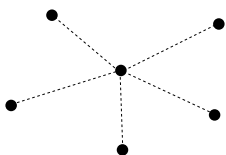
POWER REQUIREMENTS

SUPPLY VOLTAGE	2.8 - 3.4VDC	2.8 - 3.4VDC
TRANSMIT CURRENT	45 mA @ 3.3VDC	215 mA @ 3.3VDC
RECEIVE CURRENT	50 mA @ 3.3VDC	55 mA @ 3.3VDC
POWER-DOWN CURRENT	<10 uA @ 25° C	

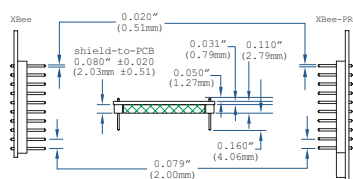
REGULATORY APPROVALS

FCC (USA)	OUR-Digi XBee	OUR-Digi XBeePRO
IC (CANADA)	4214A-Digi XBee	4214A-Digi XBeePRO
ETSI (EUROPE)	Yes	Yes - Max TX 10 mW
C-TICK AUSTRALIA	Yes	
TELEC (JAPAN)	Yes	

802.15.4 - Star

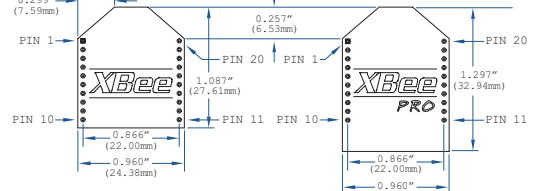


(Side Views)



(Top View)

(Top View)



PART NUMBERS

DESCRIPTION

MODULES

XB24-AWI-001	Digi XBee S1 802.15.4 low-power module w/ wire antenna
XB24-API-001	Digi XBee S1 802.15.4 low-power module w/ PCB antenna
XB24-AUI-001	Digi XBee S1 802.15.4 low-power module w/ U.fl connector
XB24-ASI-001	Digi XBee S1 802.15.4 low-power module w/ RPSMA connector
XBP24-AWI-001	Digi XBee-PRO S1 802.15.4 extended-range module w/ wire antenna
XBP24-AWI-001J	Digi XBee-PRO S1 802.15.4 extended-range module w/ wire antenna (International)
XBP24-AUI-001	Digi XBee-PRO S1 802.15.4 extended-range module w/ U.fl connector
XBP24-AUI-001J	Digi XBee-PRO S1 802.15.4 extended-range module w/ U.fl connector (International)
XBP24-ASI-001	Digi XBee-PRO S1 802.15.4 extended-range module w/ RPSMA connector
XBP24-ASI-001J	Digi XBee-PRO S1 802.15.4 extended-range module w/ RPSMA connector (International)
XBP24-API-001	Digi XBee-PRO S1 802.15.4 extended-range module w/ PCB antenna
XBP24-API-001J	Digi XBee-PRO S1 802.15.4 extended-range module w/ PCB antenna (International)

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