



DIGI XBEE® WI-FI

Embedded Wi-Fi modules provide ultra low-power 802.11b/g/n communications in the flexible Digi XBee hardware and software footprint

Digi XBee Wi-Fi embedded RF modules provide simple serial to IEEE 802.11 connectivity. By bridging the low-power/low-cost requirements of wireless device networking with the proven infrastructure of 802.11, the Digi XBee Wi-Fi creates new wireless opportunities for energy management, process and factory automation, wireless sensor networks, intelligent asset management and more. Featuring easy provisioning methods and native Digi Remote Manager® connectivity, Digi XBee Wi-Fi modules give developers the fastest IP-to-device and device-to-cloud capability possible. Focused on the rigorous requirements of these wireless device networks, the module gives developers IP-to-device and device-to-cloud capability.

Digi XBee modules offer developers tremendous flexibility and are available in surface mount and through-hole form factors. The Digi XBee Wi-Fi shares a common footprint with other Digi XBee modules. This allows different Digi XBee technologies to be drop-in replacements for each other.

As a member of the Digi XBee family, the Digi XBee Wi-Fi combines hardware with software for a complete modular solution. Digi XBee Wi-Fi modules are designed to communicate with access points in existing 802.11 infrastructures. Developers can use AT and API commands for advanced configuration options.

BENEFITS

- Native Digi Remote Manager integration for data acquisition and device management
- Hardware and software complete module easily joins existing 802.11 b/g/n (Wi-Fi) infrastructures
- Common Digi XBee footprint allows OEMs to support a variety of wireless protocols
- Flexible SPI and UART serial interfaces
- Available in Surface Mount and Through-Hole form factors
- Support for low-power sleeping applications with <6 μA power-down current
- Over-the-air data rates up to 72 Mbps
- Simple provisioning methods including Soft AP and Wi-Fi Protected Setup (WPS)

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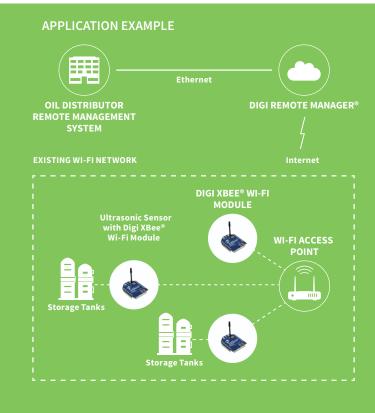








Development Kits



SPECIFICATIONS	Digi XBee® Wi-Fi (S6B)	
FEATURES		
SERIAL DATA INTERFACE	UART up to 1 Mbps, SPI up to 6 Mbps	
CONFIGURATION METHOD	API or AT commands	
FREQUENCY BAND	ISM 2.4 GHz	
ADC INPUTS	4 (12-bit)	
DIGITAL I/O	10	
FORM FACTOR	Through-Hole, Surface Mount	
ANTENNA OPTIONS	Through-Hole: PCB (Embedded), U.FL, RPSMA, Integrated Wire; SMT: PCB (Embedded), U.FL, RF Pad	
OPERATING TEMPERATURE	-30° C to +85° C	
DIMENSIONS (L X W)	Through-Hole: 0.960 in x 1.297 in (2.438 cm x 3.294 cm); SMT: 0.87 in x 1.33 in x 0.12 in (2.20 cm x 3.40 cm x 0.30 cm)	
NETWORKING AND SECURITY		
SECURITY	WPA-PSK,WPA2-PSK and WEP	
CHANNELS	13 channels	
WIRELESS LAN		
STANDARD	802.11b/g/n	
DATA RATES	1 Mbps to 72 Mbps	
MODULATION	802.11b: CCK, DSSS; 802.11g/n: OFDM with BPSK, QPSK, 16-QAM, 64-QAM	
TRANSMIT POWER	Up to +16 dBm (+13 dBm for Europe/Australia/Brazil)	
RECEIVER SENSITIVITY	-93 to -71 dBm	
POWER REQUIREMENTS		
SUPPLY VOLTAGE	3.14 - 3.46 VDC	
TRANSMIT CURRENT	Up to 309 mA	
RECEIVE CURRENT	100 mA	
POWER-DOWN CURRENT	<6 μA @ 25° C	
REGULATORY APPROVALS		
FCC (USA)	Yes	
IC (CANADA)	Yes	
CE/ETSI (EUROPE)	Yes	
C-TICK (AUSTRALIA)	Yes	
TELEC (JAPAN)	Yes	
ANATEL (BRAZIL)	Yes	

PART NUMBERS	DESCRIPTION
XB2B-WFPS-001	Digi XBee Wi-Fi (S6B), PCB Antenna, SMT
XB2B-WFRS-001	Digi XBee Wi-Fi (S6B), RF Pad Antenna, SMT
XB2B-WFUS-001	Digi XBee Wi-Fi (S6B), U.FL Antenna, SMT
XB2B-WFPT-001	Digi XBee Wi-Fi (S6B), PCB Antenna, Through-Hole
XB2B-WFUT-001	Digi XBee Wi-Fi (S6B), U.FL Antenna, Through-Hole
XB2B-WFWT-001	Digi XBee Wi-Fi (S6B), Wire Antenna, Through-Hole
XB2B-WFST-001	Digi XBee Wi-Fi (S6B), RPSMA Antenna, Through-Hole

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