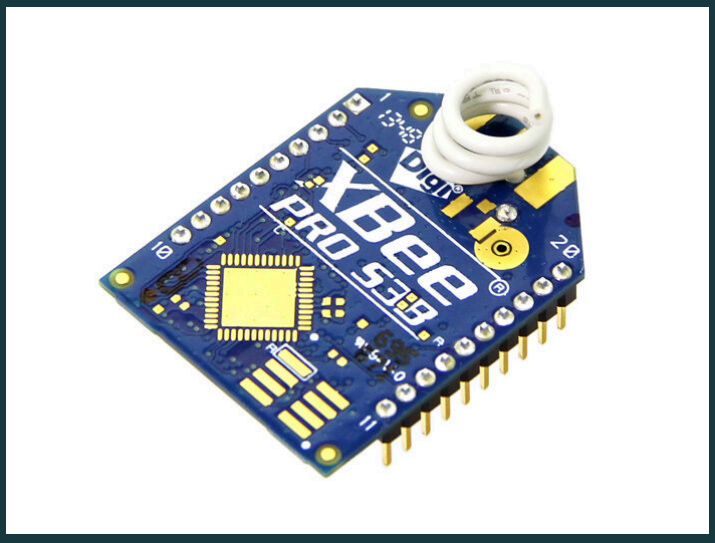
seeed studio

INDUSTRIAL PRODUCT DATASHEET

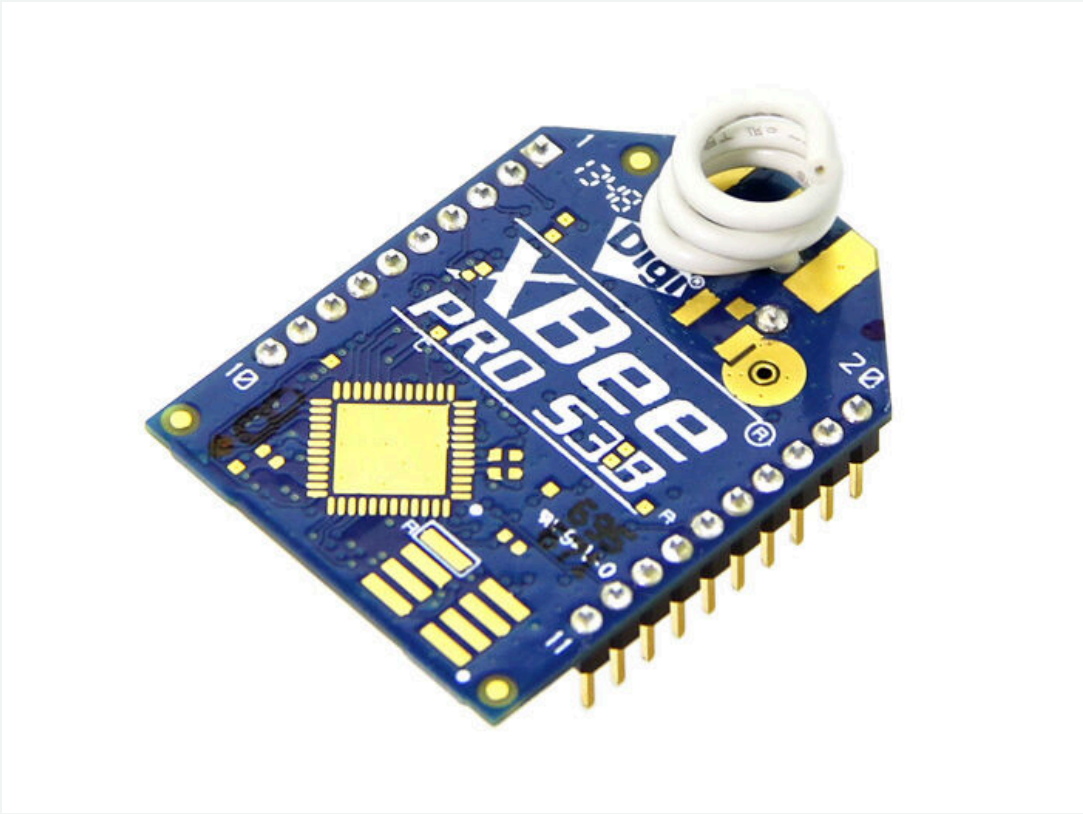
Xbee Pro RF Modules 928MHz 200Kbps 20-Pin w& Cortex-M3 EFM32G230 @28MHz - XBP9B-DMWT-022

Long-range 900 MHz XBee module offering up to 28 miles LOS range and 200 Kbps data rate with easy AT command or X-CTU configuration and DigiMesh support.

SKU	UPDATED	PRICE
113990076	2026-04-09 12:22:18	$89.00(Excl. VAT)



Overview



Xbee-PRO 900HP embedded modules provide best-in-class range wireless connectivity up to 28 miles LOS with high-gain antennas and data rates up to 200 Kbps, utilizing DigiMesh networking and advanced sleep modes. They accelerate time to market with simplified AT command configuration, over-the-air firmware updates, and a common hardware footprint for easy substitution.

Key Features

Description

Key Feature

- Perior outdoor LOS range of up to 28 miles with the high-gain antenna
- Simplified AT command set or advanced XBee API accelerates time to market
- Over-the-air firmware updates via other XBee-PRO 900HP modules or Device Cloud by Etherios™
- Software-selectable channel mask for interference immunity
- Advanced sleep modes include sleeping routers, pin sleep, cyclic sleep
- Easy to use, share a common hardware footprint and available in a variety of different protocols
- Enabling users to substitute one XBee for another with minimal development time and risk.

Description

XBee-PRO 900HP embedded modules provide best-in-class range wireless connectivity to devices. They take advantage of the DigiMesh® networking protocol, featuring dense network operation and support for sleeping routers, and are also available in a proprietary point-to-multipoint configuration.

Supporting RF line-of-sight ranges up to 28 miles (with high-gain antennas), and data rates of up to 200 Kbps, these modules are ideal for extended-range applications requiring increased data throughput.

The XBee-PRO 900HP requires no programming and can be configured easily using Digi's free X-CTU software or via a simplified AT command set. XBee modules are pre-certified for use in multiple countries, further reducing development costs and time to market.

Specification

- Processor: ADF7023 transceiver, Cortex-M3 EFM32G230 @ 28 MHz
- Frequency Band: 902 to 928 MHz, software selectable channel mask for interference immunity
- Antenna Options: Wire, U.FL and RPSMA
- RF Data Rate: 10 Kbps or 200 Kbps
- Indoor/Urban Range: 10 Kbps: up to 2000 ft (610 m); 200 Kbps: up to 1000 ft (305 m)
- Outdoor/ Line-Of-Sight Range : 10 Kbps: up to 9 miles (14 km); 200 Kbps: up to 4 miles (6.5 km) (w/ 2.1 dB dipole antennas)
- Transmit Power: Up to 24 dBm (250 mW) software selectable
- Receiver Sensitivity: -101 dBm @ 200 Kbps, -110 dBm @ 10 Kbps
- Data Interface: UART (3V), SPI
- GPIO: Up to 15 Digital I/O, 4 10-bit ADC inputs, 2 PWM outputs
- Networking Topologies: DigiMesh, Repeater, Point-to-Point, Point-to-Multipoint, Peer-to-Peer
- Spread Spectrum: FHSS (Software Selectable Channels)
- Supply Voltage: 2.1 to 3.6 VDC
- Transmit Current: 215 mA
- Receive Current: 29 mA
- Sleep Current: 2.5 uA

Technical Details
Technical details

Specification

Dimensions	50mm x70mm x7.7mm
Weight	G.W 5g
Battery	Exclude

Compliance & Logistics



HSCODE	8517709000
USHSCODE	8517790000
UPC	841454101093
EUHSCODE	8517180000
COO	CHINA

Resource Links

- https://www.seeedstudio.com/Xbee-Pro-RF-Modules-928MHz-200Kbps-20-Pin-w-Cortex-M3-EFM32G230-28MHz-XBP9B-DMWT-022-p-1968.html

Seeed Technology Co.,Ltd.
9F, Building G3, International E City,
Zhongshanyuan Road, Nanshan, Shenzhen, China

Tel: +86 0755-80695676
Web: www.seeed.cc
Shop: www.seeedstudio.com