

Miniature 840 to 845 MHz Wireless Modem

For the ultimate solution in design flexibility and cost/size sensitive applications, consider the Pico Series P400-840 radio platform. Offering robust and secure operation in the 840-845 MHz Band, the P400 provides an economical solution with the design flexibility, features, and performance never seen before!

840 - 845 MHz

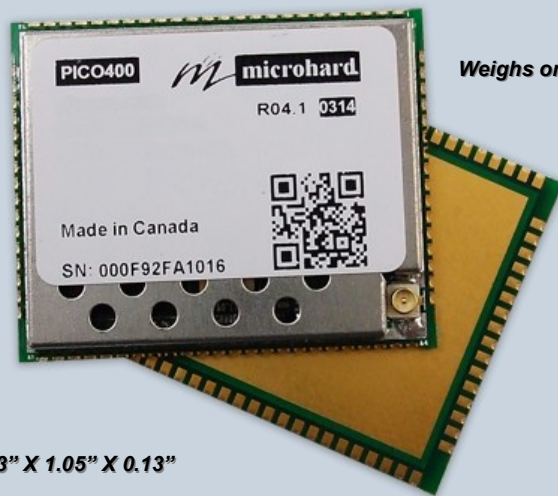
1W Frequency Hopping

2W Fixed Channel

Extended Temperature

Dual Serial Ports

Excellent Sensitivity



Weights only 5 grams!

1.3" X 1.05" X 0.13"

Features

- Supports up to 345 kbps
- Software Selectable Frequency Hopping or Fixed Channel Operation
- Quad Filter Stage provides Extreme Noise & Interference Rejection
- Point-to-Point, Point-to-Multipoint, Store & Forward Repeater
- Industrial Temperature (-55°C to +85°C)
- Maximum allowable transit power (Adjustable)
- Low Power consumption in Sleep and Sniff modes (Future)
- 32 bits of CRC, selectable Forward Error Correction with retransmission
- Separate diagnostics port—transparent remote diagnosis and online network control
- Extremely Small Footprint (26.5 x 33 x 3.5mm | 1.3 x 1.05 x 0.15")

Enclosed Option



Pico Series

Specifications

Spreading Method / Modulation Scheme	Frequency Hopping/Fixed Frequency, GMSK, 2GFSK, 4GFSK, QPSK	Frequency 840 to 845 MHz (Frequency Hopping)			
		Rate (kbps)	Power (W)	Sensitivity (dBm)	Bandwidth (kHz)
Forward Error Correction	Hamming, BCH, Golay, Reed-Solomon, Viterbi	19.2	1	-116	25
Error Detection	32 bits of CRC, ARQ	56	1	-113	60
Encryption	Optional (see -AES option)	115.2	1	-109	150
Range	Up to 60 miles (100 km)	172.8	1	-108	180
Serial Interface	3.3V CMOS RS232/485 (Selectable)	230.4	1	-106	230
Serial Baud Rate	300 bps to 230 kbps	276.4	1	-105	230
Operating Modes	Point-to-Point, Point-to-Multipoint, Store & Forward Repeater, Peer-to-Peer	345	1	-103	400
Signals Interface	RSSI LEDs, Tx/Rx LEDs, Reset, Config, Wake-up, RSmode, 4 Digital Inputs/Outputs, 1 Analog Input, 1 Analog Output	Frequency 840 to 845 MHz (Single Channel)			
Remote Diagnostics	Battery Voltage, Temperature, RSSI, Packet Statistics	19.2	2	-116	25
Rejection	Adjacent Channel @ 840 MHz: 57 dB Alternate Channel @ 840 MHz: 65 dB	56	2	-113	60
Core Voltage	OEM Enclosed	115.2	2	-109	150
		172.8	2	-108	180
Power Consumption (3.3V)	Sleep: < 1mA (Future) Idle: 20mA Rx: 45mA to 98mA Tx Peak: 2A	230.4	2	-106	230
Connectors:	OEM Enclosed	276.4	2	-105	230
Environmental	-55°C - +85°C 5-95% humidity, non-condensing	345	2	-103	400
Weight	OEM Enclosed	Order Options			
Dimensions	OEM Enclosed	P400-840	840 MHz Pico OEM Wireless Modem		
Approvals	RoHS Compliant	-AES	128-bit AES Encryption. Required Export Permit.		
		-ENC	Enclosed Model		

Contact Information

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