

Miniature 2.2 to 2.3 GHz Wireless Modem

For the ultimate solution in design flexibility and cost/size sensitive applications, consider the Pico Series p2200 radio platform. Operating in the 2.2 to 2.3 GHz band, the p2200 provides an wireless solution with the design flexibility, features, and performance never seen before!

2.2 to 2.3 GHz

1W RF Power

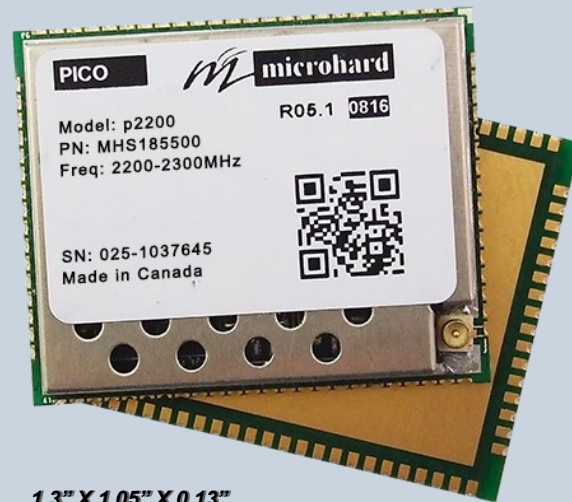
Extended Temperature

Dual Serial Ports

Enhanced Sensitivity

Excellent Rejection

Weights only 5 grams!



1.3" X 1.05" X 0.13"

p2200 Features

- Supports 19.2 kbps to 345 kbps
- Superheterodyne Architecture
- Quad Filter Stage provides Extreme Noise & Interference Rejection
- Rejection > 65 dBc
- 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")

Interface Options



Pico-Nano Interface Card

Pico Series

Specifications

Frequency		Performance Specifications			
Spreading Method	Frequency Hopping, DTS	Rate (kbps)	Power	Sensitivity (dBm)	Bandwidth (KHz)
Forward Error Correction	Hamming, BCH, Golay, Reed-Solomon, Viterbi	19.2	1W	-116	25
Error Detection	32 bits of CRC, ARQ	56	1W	-113	60
Encryption	128/256-bit AES Optional (see -AES option)	115.2	1W	-109	150
Range	30 miles (50 km)	172.8	1W	-108	180
Serial Interface	3.3V CMOS RS232/485 (Selectable)	230.4	1W	-106	230
Serial Baud Rate	300 bps to 230 kbps	276.4	1W	-105	280
Operating Modes	Point-to-Point, Point-to-Multipoint, Store & Forward Repeater, Peer-to-Peer	345	1W	-103	400
Signals Interface	RSSI LEDs, Tx/Rx LEDs, Reset, Config, Wake-up, RSMODE, 4 Digital Inputs/Outputs, 1 Analog Input, 1 Analog Output	19.2	100mW	-115	25
Remote Diagnostics	Battery Voltage, Temperature, RSSI, Packet Statistics	56	100mW	-110	60
Rejection	Adjacent Channel @ 2200 MHz: 57 dB Alternate Channel @ 2200 MHz: 65 dB	115.2	100mW	-109	150
Core Voltage	OEM 3.3VDC is required for 1W 3.6VDC is required for 2W	172.8	100mW	-108	180
	Enclosed 9-30 VDC	230.4	100mW	-106	230
Power Consumption (3.3V)	Sleep: < 1mA (Future) Idle: 20mA Rx: 45mA to 98mA Tx Peak: 2A	276.4	100mW	-105	280
		345	100mW	-103	400
Order Options					
Connectors:	OEM Antenna: UFL Data: 80 Pin SMT	P2200		Base Model .	
	Enclosed Antenna: RP-SMA Female Bulkhead Data: DB9-F	-AES		128/256-bit AES Encryption.**	
Environmental	-55°C to +85°C 5-95% humidity, non-condensing	-ENC		Enclosed Model	
**AES encryption requires an Export Permit					
Weight	OEM ~5 grams				
	Enclosed ~120 grams				
Dimensions	OEM 1.05" x 1.3" x .13" (26.5mm x 33mm x 3.5mm)				
	Enclosed 1.80" x 2.60" x 1.0" (46mm x 66mm x 25mm)				

Contact Information

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