

Miniature High Power 840 - 845 MHz Wireless Modem

The all new hp840, which is 1/2 the size of our standard Pico Series Radio, delivers the ultimate solution for cost and size sensitive applications. The hp840 offers a miniature 840 MHz serial radio with the reliability, features, and performance of our larger modems! The hp840 features high power operation with a total of 2W available when transmitting on a fixed channel.

High Power

Very Low Cost

PMP | PTP

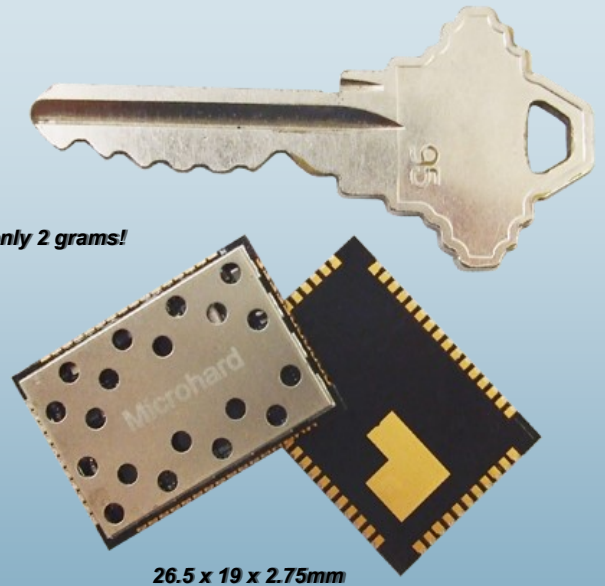
1W Hopping / 2W Fixed

Only 2 grams!

Excellent Sensitivity

-122 dBm @ 19.2 kbps

Weights only 2 grams!



26.5 x 19 x 2.75mm

Features of the hp840

- Very Low Cost
- 840 - 845 MHz Frequency Hopping or Fixed Channel Operation
- Supports from 19.2 kbps to 500 kbps!
- Multi Stage, SAW Filters provide Extreme Noise and Interference Rejection
- Point-to-Multipoint & Point-to-Point Network Topology
- Master & Remote Operating Modes
- Industrial Temperature (-55°C to +85°C)
- Tx Power of up to 2W on a Fixed Channel
- Low Power consumption in Sleep and Sniff modes
- 32 bits of CRC, selectable Forward Error Correction with retransmit



hp840

Specifications

Frequency	840 - 845 MHz	Current Consumption			
Spreading Method	Frequency Hopping, Fixed Channel	Tx Power (dBm)	Vcc (Voc)	VRF (mA)	Vdd (mA)
Error Detection	32 bits of CRC, ARQ, FEC	21	3.6	520	30
Encryption	Optional (see -AES option)	25	3.6	720	33
Range	Up to 100 miles (160 km)	28	3.6	990	36
Sensitivity (@10⁻⁴/FEC)	-122 dBm @ 19.2 kbps -119 dBm @ 38.4 kbps -115 dBm @ 115.2 kbps -112 dBm @ 172.8 kbps -111 dBm @ 230.4 kbps -109 dBm @ 345.6 kbps -108 dBm @ 500 kbps	30	3.6	1290	38
Output Power	Up to 1W Frequency Hopping Up to 2W Fixed Channel	33	3.6	1800	54
Serial Interface	3.6V CMOS	Rx	3.6	0	47
Serial Baud Rate	Up to 230.4 kbps asynchronous	Rx (link)	3.6	0	47-56
Link Rate	19.2 to 500 kbps	Order Options			
Operating Modes	Master, Remote	hp840	840 - 845 MHz Miniature OEM Wireless Modem		
Signals Interface	RxD, TxD, RTS, CTS, DCD, DSR, DTR, RSSI, Tx/Rx, Reset, Config	-AES	128-bit AES Encryption. Requires Export Permit.		
Blocking	+/- 1 MHz > 50 dBc +/- 2.5 MHz > 55 dBc +/- 5 MHz > 60 dBc				
Core Voltage	3.3 to 3.6 VDC				
Connectors:	54 Pin SMT				
Environmental	-55°C to +85°C 5 to 95% humidity, non-condensing				
Weight	Approx. 2 grams				
Dimensions	Approx. 1.05" x 0.75" x .11" (26.5mm x 19mm x 2.75mm)				
Approvals	RoHS Compliant				

Contact Information

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Microhard Systems Inc.
150 Country Hills Landing N.W.
Calgary, AB, Canada T3K 5P3

Email: info@microhardcorp.com
Tel: (403) 248-0028
Fax: (403) 248-2762



www.microhardcorp.com