P900-SWP

microhard

Low Size, Weight, Power & Cost Enclosed Wireless Modem

For the ultimate solution for cost and size sensitive applications, consider the P900-SWP with its compact & robust footprint, ideal for design flexibility. The P900-SWP offers a low cost 900 MHz solution with the reliability, features, and performance of our larger modems!

Only 37 grams!

36 x 48 x 15 mm

- Low Cost
- PTP | PMP | Relay | MESH
- 30 dBm (1W)
- Extended Temperature
- Dual Serial Ports
- Excellent Sensitivity

The P900 features robust, high speed, low latency, secure data communications. The P900 offers excellent noise figure, superior interference rejection, agile frequency synthesis, digital modulation, and matched filter detection.

Features

- Low Cost
- Supports up to 276kbps!
- Quad Filter Stage provides Extreme Noise & Interference Rejection
- True Self Healing Mesh, Auto Routing, Store & Forward
- Industrial Temperature (-55°C to +85°C)
- Maximum allowable transit power (Adjustable, up to 1W)
- Low Power consumption in Sleep and Sniff modes
- 32 bits of CRC, selectable Forward Error Correction with retransmit
- Separate diagnostics port—transparent remote diagnosis and online network control
- Miniature Size (36 x 48 x 15 mm)

SWP Serial Expander Board & Interface Cable

Frequency	902-928 MHz
Spreading Method	Frequency Hopping
Forward Error Detection	Hamming BCH Golay Reed-Solomon
Error Detection	32 bits of CRC, ARQ
Encryption	Optional (see –AES option)
Range	40 miles (60 km)
Sensitivity (@10^{-4})	-114 dBm @ 57.6 kbps -112 dBm @ 115.2 kbps -109 dBm @ 172.8 kbps -107 dBm @ 230.4 kbps
Output Power	100mW - 1W (20-30dBm)
Wireless Link Rate	57.6 to 276 kbps
Ports Serial USB	RS232 (300bps - 230kbps) 2.0
Serial Baud Rate	Up to 230.4 kbps asynchronous
Operating Modes	Mesh, Auto Routing, Store and Forward, Self Healing, Packet Routing Modes
Blocking	+/- 1 MHz > 55 dBc +/- 2.5 MHz > 60 dBc +/- 5 MHz > 65 dBc > 930 MHz > 70 dBc < 890 MHz > 70 dBc
Remote Diagnostics	Battery Voltage, Temperature, RSSI, Packet Statistics
Input Voltage	7 - 30VDC

Mating Connector	Power, Data: 10-Pin (GHR-10V-S) Antenna: MMCX
Environmental	-55°C to +85°C
Weight	~37 grams
Dimensions	~36 x 48 x 15 mm
Approvals	FCC Part 15.247 IC RSS210 Anatel RoHS Compliant

Order Options

P900-SWP	Miniature Enclosed 900MHz Modem
-AES	128-bit AES Encryption (requires export permit)
-AES256	256-bit AES Encryption (requires export permit)