

Mesh900(P900)

Micro Volume/Low Cost/Narrowband Ad Hoc Network Wireless Data/Voice Transmission

Mesh900 (P900) wireless data / voice narrowband ad hoc network provides small size and flexible design solutions for low cost and limited space applications. Mesh900 (P900) wireless data/voice narrowband ad hoc network has the same reliability, performance and index as other large-scale data transmission modules.

Very Low Cost

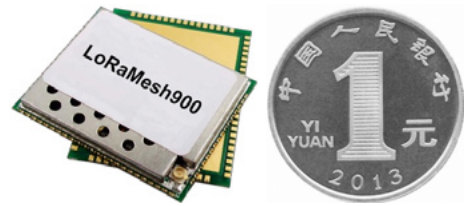
Mesh

1/10Watts

Extended Temperature

Dual Serial Ports

Excellent Sensitivity



Mesh900-1Watts Module(Weights only 5 grams!)
26.5x33x3.5mm

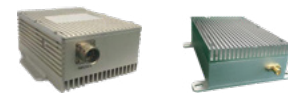
Mesh900 (P900) wireless data/voice narrowband ad hoc network has the advantages of high speed, reliability, low delay and secure data communication. Supports full duplex serial port and diagnostic communication. Mesh900 (P900) wireless data/voice narrowband ad hoc network has extremely high noise suppression, interference elimination and flexible frequency synthesis, digital modulation and matched filter detection technology.

Performance

- Very Low Cost
- Supports up to 276kbps
- Ultra low noise and interference suppression 4-stage filtering
- 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 bit of CRC,selectable Forward Error Correction with retransmit
- Separate diagnostics port—transparent remote diagnosis and online network control
- Extremely Small Footprint(26.5 x 33 x 3.5mm)



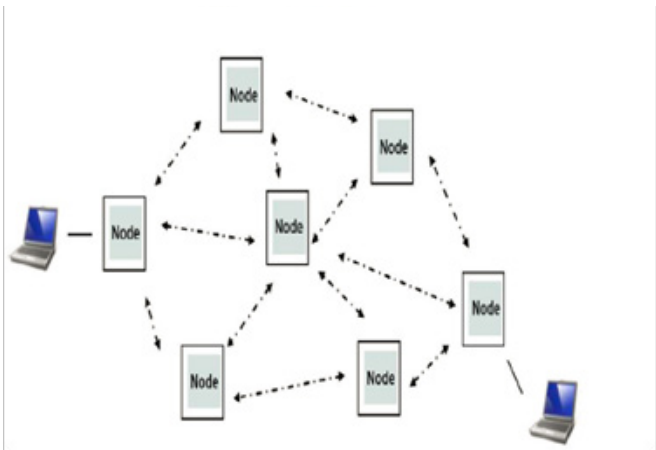
Mesh900-1Watts Enclosed
(46x66x25/40x67x15mm,120/57g)
(2W,TTL/USB/232/485/422,5-30V)



Mesh900-15Watts Enclosed
(12.5x8x5/11x8x4cm,500/300g)
(15/25W,19.2-345kbps,232/485/422,10.5-16V/4-6A)

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Technical Specifications of Wireless Data/Voice Narrowband Ad Hoc Networks

Operating Frequency	902-928MHz	Power consumption (3.3V +/-0.3V@1W)	Sleep	< 1mA
Spread Spectrum Mode	Frequency Hopping		Idle	3.5mA
Forward Error Correction	Hamming BCH Golay Reed- Solomon	Connect	Antenna	UFL
			Data	80 Pin SMT
Error Detection	32 bits of CRC,ARQ	Temperature	-55°C ~+85°C	
Encryption	Optional(see-AES option)	Weight	Approx. 5 grams	
Communication Range	60km, 1W, working in the open and expand without obstruction	Size	Approx. 1.05"x1.3"x.13" (26.5mm x 33mm x 3.5mm)	
Sensitivity (@ 10-4)	-110 dBm @ 115.2 kbps -108 dBm @ 172.8 kbps -107 dBm @ 230.4 kbps		License	FCC Part 15.247 IC RSS210
Output Power	100mW - 1W/10W	Application		
Serial Interface	3.3V CMOS			
Serial Port Baud Rate	Up to 230.4kbps asynchronous			
Air Rate	115 - 276kbps			
Operating Mode	Mesh,Auto Routing,Store and Forward,Self Healing,Packet Routing Modes			
Signal Interface	RxD1,TxD1,RTS,CTS DCD,DSR,DTR, RxD2,TxD2,RSSI LEDs,Tx/Rx LEDs, Reset,Config,Wake-up,RSmode,4 Digital Inputs/Outputs,1 Analog Input, 1 Analog Output			
Out-of-band Radiation	+/- 1MHz > 55 dBc +/- 2.5MHz > 60 dBc +/- 5MHz > 65 dBc >930MHz > 70 dBc <890MHz > 70 dBc			
Remote Diagnosis	Battery Voltage, Temperature,RSSI, Packet Statistics			
Operating Voltage	3.3VDC Nominal(+/-0.3V)			



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