

1W OEM 802.11b/g/n Serial/Ethernet WIFI Router

The pX2 is a miniature OEM, high power, 802.11b/g/n wireless router. Its feature rich design delivers a robust, secure, industrial strength wireless solution for critical data communications. The pX2 takes things to the next level by providing features such as Dual Ethernet Ports, RS232 Serial Communications Port and USB capabilities. The pX2 is ideal for custom integration projects and IoT applications

802.11 b/g/n

1W / Excellent Sensitivity

USB 2.0 & RS232

Dual Ethernet

Industrial Temperature

IoT Applications

Weights only 5 grams!



1.3" X 1.05" X 0.13"

Features

- **High Power Tx (up to 1W) w/ Excellent Rx Sensitivity**
- **Up to 150 Mbps data rate**
- **Support for 802.11b/g/n Devices**
- **Firewall with ACL Security, Port Forwarding**
- **Full Scale Access Point, AP Station**
- **Multiple SSID Support**
- **Serial Gateway (RS232)**
- **Dual 10/100 Ethernet Ports**
- **RSSI LED pins for Antenna Alignments**
- **Industrial grade operating temperature (-40°C to +85°C)**
- **Administration via local console, telnet, web browser, SNMP**
- **Local and remote wireless firmware upgradable**

Interface Options



Pico Motherboard



pX2 Enclosed

pX2

Specifications

Frequency		2.4000 - 2.4835 GHz		Performance Specifications			
Radio Operation		IEEE 802.11 b/g/n		Rate	Mode	Tx Power	Recieve
Link Rate		Up to 150 Mbps		1 Mbps	802.11b	30 dBm	-97 dBm ±1 dB
Error Detection/Control		FEC/ARQ		2 Mbps	802.11b	30 dBm	-96 dBm ±1 dB
Encryption		WEP,WPA(PSK), WPA2(PSK), WPA+WPA2(PSK), WPA Enterprise (RADIUS), WPA2 Enterprise, WPA + WPA2 Enterprise		5.5 Mbps	802.11b	30 dBm	-95 dBm ±1 dB
				11 Mbps	802.11b	30 dBm	-92 dBm ±1 dB
Range		> 10 miles (16 km) (Antenna Dependant)		6 Mbps	802.11g	30 dBm	-94 dBm ±1 dB
Output Power		Up to 30dBm (1W)		9 Mbps	802.11g	30 dBm	-93 dBm ±1 dB
Ports				12 Mbps	802.11g	30 dBm	-91 dBm ±1 dB
Serial Data/Console		RS232 (Tx, RX, RTS, CTS, DTR, DSR)		18 Mbps	802.11g	30 dBm	-90 dBm ±1 dB
LAN Ethernet		300bps to 921kbps		24 Mbps	802.11g	28 dBm	-86 dBm ±1 dB
USB		Dual 10/100BaseT IEEE802.3 2.0		36 Mbps	802.11g	28 dBm	-83 dBm ±1 dB
Operating Modes		Full Scale Access Point, AP Station		48 Mbps	802.11g	26 dBm	-77 dBm ±1 dB
Management		Local Serial Port Console, Telnet, WebUI, SNMP, FTP Upgrade, TFTP, CLI (Command Line Interface)		54 Mbps	802.11g	26 dBm	-75 dBm ±1 dB
Network Advanced Protocols		TCP, UDP, TCP/IP, ARP, ICMP, DHCP, HTTP, SNMP, FTP, Serial over IP		MCS0	802.11n (HT20)	30 dBm	-96 dBm ±1 dB
		IP Routing - static Routing, IP/RIPv1, IP/RIPv2, CIDR, ICMP, ARP NAT and Port Forwarding (Routing mode only).		MCS1	802.11n (HT20)	30 dBm	-95 dBm ±1 dB
		Full 802.1Q VLAN Support, Access Control Lists (MAC & IP), MAC/IP Binding, Multiple SSID Support		MCS2	802.11n (HT20)	30 dBm	-92 dBm ±1 dB
Diagnostics		Remote Diagnostics, Monitor Utilities (Ping, ARP table, DHCP active leases, CCQ), Link Test		MCS3	802.11n (HT20)	28 dBm	-90 dBm ±1 dB
Rejection		Excellent strong signal interference & rejection characteristics		MCS4	802.11n (HT20)	28 dBm	-86 dBm ±1 dB
Input Voltage		Vcc: 3.3VDC (+/-0.3V) / Vpa: 3.3 to 5.0 VDC		MCS5	802.11n (HT20)	26 dBm	-83 dBm ±1 dB
Connectors:				MCS6	802.11n (HT20)	26 dBm	-77 dBm ±1 dB
OEM		Antenna: UFL (Main) Data: 80 Pin SMT		MCS7	802.11n (HT20)	26 dBm	-75 dBm ±1 dB
Motherboard/ENC		Antenna (Enclosed): RP-SMA Female Data: RJ-45 x2 (Ethernet) Female DB9 (Serial) USB Type A Micro-AB USB (Console) 4 PIN Interlock (Vin, I/O)		MCS0	802.11n (HT40)	30 dBm	-94 dBm ±1 dB
Environmental		-40°F to 185°F (-40°C to +85°C) 5-95% humidity, non-condensing		MCS1	802.11n (HT40)	30 dBm	-93 dBm ±1 dB
Weight		Approx. 5 grams Approx. 50 grams Approx, 165 grams		MCS2	802.11n (HT40)	30 dBm	-90 dBm ±1 dB
Dimensions		Approx. 1.05" x 1.3" x .15" (27mm x 33mm x 4mm) Approx. 2.5" x 3.0" x 0.70" (64mm x 76mm x 18mm) Enclosed Approx. 3.05" x 2.2" x 1.1" (77mm x 55mm x 28mm)		MCS3	802.11n (HT40)	28 dBm	-89 dBm ±1 dB
Approvals		FCC Part 15.247 IC RSS210		MCS4	802.11n (HT40)	28 dBm	-84 dBm ±1 dB
				MCS5	802.11n (HT40)	26 dBm	-81 dBm ±1 dB
				MCS6	802.11n (HT40)	26 dBm	-75 dBm ±1 dB
				MCS7	802.11n (HT40)	26 dBm	-73 dBm ±1 dB
Order Options							
					MHS185200 MHK185230	pX2 OEM 1W 802.11b/g/n WIFI Router pX2 Enclosed 1W 802.11b/g/n WIFI Router	

Contact Information

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