

## All New pX2 - 1W OEM 802.11b/g/n Serial/Ethernet WIFI Router

The all new 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!



## 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

# pX2

# Specifications

		Performance Specifications			
		Rate	Mode	Tx Power	Recieve
Frequency	2.4000 - 2.4835 GHz	1 Mbps	802.11b	30 dBm	-97 dBm ±1 dB
Radio Operation	IEEE 802.11 b/g/n	2 Mbps	802.11b	30 dBm	-96 dBm ±1 dB
Link Rate	Up to 150 Mbps	5.5 Mbps	802.11b	30 dBm	-95 dBm ±1 dB
Error Detection/Control	FEC/ARQ	11 Mbps	802.11b	30 dBm	-92 dBm ±1 dB
Encryption	WEP, WPA(PSK), WPA2(PSK), WPA+WPA2 (PSK), WPA Enterprise (RADIUS), WPA2 Enterprise, WPA + WPA2 Enterprise	6 Mbps	802.11g	30 dBm	-94 dBm ±1 dB
		9 Mbps	802.11g	30 dBm	-93 dBm ±1 dB
		12 Mbps	802.11g	30 dBm	-91 dBm ±1 dB
Range	> 10 miles (16 km) (Antenna Dependant)	18 Mbps	802.11g	30 dBm	-90 dBm ±1 dB
Output Power	Up to 30dBm (1W)	24 Mbps	802.11g	28 dBm	-86 dBm ±1 dB
Ports	<b>Serial Data/Console</b> RS232 (Tx, RX, RTS, CTS, DTR, DSR) 300bps to 921kbps <b>LAN Ethernet</b> Dual 10/100BaseT IEEE802.3 <b>USB</b> 2.0 (Future Development)	36 Mbps	802.11g	28 dBm	-83 dBm ±1 dB
		48 Mbps	802.11g	26 dBm	-77 dBm ±1 dB
		54 Mbps	802.11g	26 dBm	-75 dBm ±1 dB
Operating Modes	Full Scale Access Point, AP Station	MCS0	802.11n (HT20)	30 dBm	-96 dBm ±1 dB
Management	Local Serial Port Console, Telnet, WebUI, SNMP, FTP Upgrade, TFTP, CLI (Command Line Interface)	MCS1	802.11n (HT20)	30 dBm	-95 dBm ±1 dB
		MCS2	802.11n (HT20)	30 dBm	-92 dBm ±1 dB
Network Advanced Protocols	TCP, UDP, TCP/IP, ARP, ICMP, DHCP, HTTP, SNMP, FTP, Serial over IP  IP Routing - static Routing, IP/RIPv1, IP/RIPv2, CIDR, ICMP, ARP NAT and Port Forwarding (Routing mode only)  DHCP Server, Relay, and Client / DHCP Server Reservation  Full 802.1Q VLAN Support  Access Control Lists (MAC & IP), MAC/IP Binding  Multiple SSID Support	MCS3	802.11n (HT20)	28 dBm	-90 dBm ±1 dB
		MCS4	802.11n (HT20)	28 dBm	-86 dBm ±1 dB
		MCS5	802.11n (HT20)	26 dBm	-83 dBm ±1 dB
		MCS6	802.11n (HT20)	26 dBm	-77 dBm ±1 dB
		MCS7	802.11n (HT20)	26 dBm	-75 dBm ±1 dB
		MCS0	802.11n (HT40)	30 dBm	-94 dBm ±1 dB
		MCS1	802.11n (HT40)	30 dBm	-93 dBm ±1 dB
		MCS2	802.11n (HT40)	30 dBm	-90 dBm ±1 dB
		MCS3	802.11n (HT40)	28 dBm	-89 dBm ±1 dB
		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
Diagnostics	Remote Diagnostics, Monitor Utilities (Ping, ARP table, Bridge Table, DHCP active leases, CCQ), Link Test				
Rejection	Excellent strong signal interference & rejection characteristics				
Input Voltage	Vcc: 3.3VDC Nominal (+/-0.3V) Vpa: 3.3 to 5.0 VDC				
Connectors:	Antenna: UFL Data: 80 Pin SMT				
Environmental	-40°F to 185°F (-40°C to +85°C) 5-95% humidity, non-condensing				
Weight	Approx. 5g				
Dimensions	Approx. 1.05" x 1.3" x .13" (26.5mm x 33mm x 3.5mm)				
Approvals	FCC Part 15.247 IC RSS210				

## Order Options

Model pX2 (MHS185200)

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