Netronics

NetPoint Pro 6x2.4 G2 M

The NetPoint Pro 6X2.4 G2M is an Omni-directional multi-radio weather-proof design intended for street-level light-pole/utility pole Wi-Fi applications.

The NetPoint Pro 6X2.4 G2M is equipped with NBF powered beam forming 802.11b/g radio for high-performance access & coverage and an additional 802.11a radio for high-performance, self-assembling self-healing mesh backhaul. With NBF adaptive beam forming technology, the NetPoint Pro 6X2.4 G2M outperforms competing solutions, providing much better than twice the range, coverage, subscriber access and performance. Similar to all of the NetPoint Pro G2M products, the 6x2.4 series is part of Netronics state-of-the-art, self-assembling, self-healing mesh network.

Product Highlights

- Robust weather-proof mesh Wi-Fi base station
- Superior 802.11 b/g accessed powered by NBF adaptive beam forming smart antenna technology
- Dedicated 802.11a radio for high-performance reliable mesh networking
- Multiple virtual APs with multiple BSSIDs
- NMS for network and RF spectrum optimization
- Highly flexible, highly reliable mesh Wi-Fi architecture
- Advanced adaptive beam forming smart antenna technology
- Maximum performance and interference mitigation
- Rural to suburban to metropolitan scale
- Superior coverage and performance
- Superior economics

Product Specifications

Radio

Wireless Network Standards	IEEE 802.11a/b/g								
Radio Interfaces	Access: 802.11b/g, Mesh: 802.11a								
Frequency bands	2.412-2.472, 5.47-5.725, 5.725-5.825 GHz								
Smart Antennas technology	NBF* smart antenna beam forming								
Antennas	Detachable omni-directional	2.4 GHz				5.8 GHz			
		Horizontal	360°			Horizontal	360°		
		Vertical	20°			Vertical	15°		
		Gain	7.4 dBi			Gain	10 dBi		
Tx Power (typical EIRP)	ETSI	20 dBmi				30dBmi			
	FCC	42 dBmi				30dBmi			
Rx Sensitivity (FCC)	802.11b	1 Mbps	2 Mbps	5.5 Mbps	11 Mbps				
		-102 dBm	-99 dBm	-95 dBm	-92 dBm				
	802.11g	6 Mbps	9 Mbps	12 Mbps	18 Mbps	24Mbps	36 Mbps	48 Mbps	54 Mbps
		-93 dBm	-93 dBm	-92 dBm	-90 dBm	-88 dBm	-83 dBm	-82 dBm	-80 dBm
	802.11a	-92 dBm	-91 dBm	-91 dBm	-89 dBm	-87 dBm	-84 dBm	-79 dBm	-76 dBm
Modulation	802.11 b	DSSS (DBPSK , DQPSK, CCK)							
	802.11 a/g	OFDM (BPSK, QPSK, 16-QAM, 64-QAM)							

Networking

Wireless	802.11s draft compatible meshing
	WDS CPE support
	Multiple ESSIDs' & BSSIDs'
Authentication & Security	802.11i
	WPA/WPA2
	(WPA-PSK, WPA-EAP)
	WEP 64/128 bit encryption
	MAC filtering
	802.1x
	AES mesh encryption

QOS	Statistical traffic classification
	802.11q VLAN
	WME
IP Protocol	Layer 2, 3 support
	DHCP Client

Management	Private, standard MIBs
	Local CLI via serial port
	SNMP v2 (NMS) (configuration, statistics and alarms)
	Web interface
	Telnet/SSH CLI
Remote SW upgrade	FTP, TFTP, Web

Hardware

Interfaces	IP67 Weatherproof RJ-45 100Base-T Ethernet with auto cross over
	IP67 Weatherproof RJ-45 Serial port (configuration)
Power input	48 VDC or 90-240 VAC
Power consumption	36 W

Dimensions (W x D x H)	33 x 24.5 x 12 cm
	13 x 9.6 x 4.7 in
Weight	7 kg, 15.4 lbs
Installation	Generic mount for pole and wall installations

Operating Temperature	-40° to 55 °C, -40° to 131 °F
Storage Temperature	-40° to 60 °C, -40° to 140 °F
Operating relative humidity	15% - 100% (non-condensing)
Non-operating relative humidity	5% - 95% (non-condensing)

Standards

EMC Standards	US: FCC Part 15.107 and 15.109
	Europe: EN 301.489-1 and -17
EMI and Susceptibility (Class B)	US: FCC Part 15.107 and 15.109
	Europe: EN 301.489-1 and -17

Safety	US, Canada: UL 1950
	US, Canada: UL 60950-1
	Europe: EN 60950-1

Environmental	Wind: >165 mph
	Up to 100 mph sustaining,
	Up to 165 mph gusts)
	Europe: EN 300.019-2-4 class 4.1 and EN 300.019-2-2 class 2.3

*About NBF (Netronics Beam Forming)

NBF Smart Antenna Technology lies at the core of the NetPoint Pro G2 Performance. NetPoint Pro innovatively leverages state-of-the-art beam forming RF technology to deliver unmatched subscriber access combined with the best performance, coverage, and interference mitigation, resulting in more than twice the range, capacity and coverage.

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