



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 dBm				30 dBm			
	FCC	42 dBm				30 dBm			
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	QOS	Statistical traffic classification	Management	Private, standard MIBs
	WDS CPE support		802.11q VLAN		Local CLI via serial port
	Multiple ESSIDs' & BSSIDs'		WME		SNMP v2 (NMS) (configuration, statistics and alarms)
Authentication & Security	802.11i	IP Protocol	Layer 2, 3 support	Web interface	Telnet/SSH CLI
	WPA/WPA2		DHCP Client		
	(WPA-PSK, WPA-EAP)		Remote SW upgrade	FTP, TFTP, Web	
	WEP 64/128 bit encryption				
	MAC filtering				
	802.1x				
AES mesh encryption					

Hardware

Interfaces	IP67 Weatherproof RJ-45 100Base-T Ethernet with auto cross over	Dimensions (W x D x H)	33 x 24.5 x 12 cm	Operating Temperature	-40° to 55 °C, -40° to 131 °F
	IP67 Weatherproof RJ-45 Serial port (configuration)		13 x 9.6 x 4.7 in		Storage Temperature
Power input	48 VDC or 90-240 VAC	Weight	7 kg, 15.4 lbs	Operating relative humidity	15% - 100% (non-condensing)
Power consumption	36 W	Installation	Generic mount for pole and wall installations	Non-operating relative humidity	5% - 95% (non-condensing)

Standards

EMC Standards	US: FCC Part 15.107 and 15.109	Safety	US, Canada: UL 1950	Environmental	Wind: >165 mph
	Europe: EN 301.489-1 and -17		US, Canada: UL 60950-1		Up to 100 mph sustaining,
EMI and Susceptibility (Class B)	US: FCC Part 15.107 and 15.109		Europe: EN 60950-1		Up to 165 mph gusts)
	Europe: EN 301.489-1 and -17		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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