



NetPoint Pro n2S5S

A pioneer in Wi-Fi beam forming technology, Netronics Next Generation MIMO xRF Beam forming Wi-Fi Access Points bring the powerful performance of beam forming technology to mass-market deployments.

The NetPoint Pro n2S5S is a carrier-grade sector access point, which leverages the company's Next Generation MIMO xRF Beam forming technology. It delivers true 10x10:3 beam forming, with 10 dual polarity antennas per band and 3 spatial streams. This high performance access point is the ideal solution for operators deploying large-scale 3G/4G data offload, Wi-Fi access and enterprise networks.

NetPoint Pro n2S5S provides a factor of x2-x4 capacity increase and 90% effective noise mitigation. With dual radio architecture that supports beam forming in both 2.4 GHz and 5 GHz bands, the platform provides operators' with flexible deployment options. The NetPoint Pro n2S5S architecture is designed to support the latest Wi-Fi standards; 802.11n today and 802.11ac in future.

Netronics Next Generation xRF Beam delivers true 10x10:3 beam forming to increase the capacity by x2-x4. The focused beams and specialized noise filters provide 90% effective noise mitigation ensuring optimal performance in noisy environments. Netronics enhanced xRF beam forming supports multiple streams in MIMO configurations to provide superior performance for 802.11n Wi-Fi and beyond to 802.11ac.

Product Highlights

- 10x10:3 beam forming with 10 dual polarity antennas
- True beam forming combining all antennas together
- X2-x4 capacity increase
- 90% effective noise mitigation
- Dual radio beam forming at 2.4 GHz and 5 GHz
- Support 802.11n & beyond to 802.11ac
- Field-proven 3G/4G offload solution that delivers business value
- Fast, easy & affordable deployment of a high-quality network
- Maximum performance and interference mitigation
- Superior coverage and performance



Product Specifications

Radio

Wireless Network Standards	IEEE 802.11a/b/g/n												
Radio Interfaces	2.4 GHz Access: 802.11b/g/n 5 GHz Access/Mesh: 802.11a/n												
Frequency bands	2.412-2.472, 5.470-5.725, 5.725-5.825 GHz												
Smart Antennas technology	MIMO xRF™ beam forming technology, with 10 dual polarity (+/-45°) antennas per band 11n with 3 spatial streams 10x10:3												
Supported Rates	b: 1, 2, 5.5, 11 g: 6, 9, 12, 18, 24, 36, 48, 54 n: MCS0-MCS23 (6.5 - 450 Mbps)												
Antennas	2.4 GHz						5 GHz						
	Horizontal			120°			Omni			External N-Type connector			
	Vertical			44°			Horizontal			26°			
	Gain			13 dBi			Gain			14 dBi			
Modulation	802.11 b – DSSS (DBPSK , DQPSK, CCK) 802.11 a/g/n – OFDM (BPSK, QPSK, 16-QAM, 256-QAM)												
Tx Power (Max EIRP)	Up to 46.7 dBm @ 2.4 GHz, HT20 MCS0						Up to 44.7 dBm @ 5 GHz, HT20 MCS0						
	Up to 43.7 dBm @ 2.4 GHz, HT20 MCS9						Up to 41.7 dBm @ 5 GHz, HT20 MCS9						
Rx Sensitivity	802.11b	1 Mbps	2 Mbps	5.5 Mbps	11 Mbps								
		-102 dBm	-99 dBm	-92 dBm	-89 dBm								
	802.11g	6 Mbps	9 Mbps	12 Mbps	18 Mbps	24 Mbps	36 Mbps	48 Mbps	54 Mbps				
		-92 dBm	-91 dBm	-90 dBm	-89 dBm	-87 dBm	-85 dBm	-80 dBm	-79 dBm				
	802.11n @ 2.4 GHz HT20	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9	MCS10	MCS11
		-92 dBm	-90 dBm	-89 dBm	-87 dBm	-85 dBm	-80 dBm	-78 dBm	-77 dBm	-92 dBm	-90 dBm	-89 dBm	-86 dBm
		MCS12	MCS13	MCS14	MCS15	MCS16	MCS17	MCS18	MCS19	MCS20	MCS21	MCS22	MCS23
		-82 dBm	-78 dBm	-77 dBm	-75 dBm	-92 dBm	-90 dBm	-88 dBm	-84 dBm	-81 dBm	-77 dBm	-75 dBm	-74 dBm
	802.11n @ 2.4 GHz HT40	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9	MCS10	MCS11
		-89 dBm	-87 dBm	-86 dBm	-84 dBm	-82 dBm	-77 dBm	-75 dBm	-74 dBm	-89 dBm	-87 dBm	-86 dBm	-83 dBm
		MCS12	MCS13	MCS14	MCS15	MCS16	MCS17	MCS18	MCS19	MCS20	MCS21	MCS22	MCS23
		-79 dBm	-75 dBm	-74 dBm	-72 dBm	-89 dBm	-87 dBm	-85 dBm	-81 dBm	-78 dBm	-74 dBm	-72 dBm	-71 dBm
	802.11a	6 Mbps	9 Mbps	12 Mbps	18 Mbps	24 Mbps	36 Mbps	48 Mbps	54 Mbps				
		-95 dBm	-94 dBm	-92 dBm	-89 dBm	-86 dBm	-83 dBm	-78 dBm	-77 dBm				
	802.11n @ 5 GHz HT20	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9	MCS10	MCS11
		-93 dBm	-90 dBm	-89 dBm	-86 dBm	-83 dBm	-78 dBm	-77 dBm	-75 dBm	-93 dBm	-90 dBm	-87 dBm	-84 dBm
MCS12		MCS13	MCS14	MCS15	MCS16	MCS17	MCS18	MCS19	MCS20	MCS21	MCS22	MCS23	
-80 dBm		-76 dBm	-75 dBm	-73 dBm	-93 dBm	-90 dBm	-88 dBm	-85 dBm	-82 dBm	-77 dBm	-75 dBm	-73 dBm	
802.11n @ 5 GHz HT40	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9	MCS10	MCS11	
	-90 dBm	-87 dBm	-86 dBm	-83 dBm	-80 dBm	-75 dBm	-74 dBm	-72 dBm	-90 dBm	-87 dBm	-84 dBm	-81 dBm	
	MCS12	MCS13	MCS14	MCS15	MCS16	MCS17	MCS18	MCS19	MCS20	MCS21	MCS22	MCS23	
	-77 dBm	-73 dBm	-72 dBm	-70 dBm	-90 dBm	-87 dBm	-85 dBm	-82 dBm	-79 dBm	-74 dBm	-72 dBm	-70 dBm	



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Networking

Networking	Self healing, Mesh
	Air Time Fairness
	Multiple ESSIDs' & BSSIDs'
	QoS, statistical traffic classification
	Fringe Zone client Ban
	WME
	802.11q VLAN
	Layer 2, 3 support
	DHCP Client

Authentication & Security	802.11i
	WPA/WPA2 (WPA-PSK, WPA-EAP, WPA-TKIP, WPA2-AES)
	WEP 64/128 bit, AES
	MAC filtering
	802.1x
	AES mesh encryption

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

Hardware

Interfaces	2 x IP67 Weatherproof RJ-45 GBE & PoE
	IP67 Weatherproof RJ-45 Serial port
	2 x IP67 N-Type 5GHz ext antenna connector (Option)
Power input	PoE -48 VDC

Dimensions (W x H x D)	29.5 x 34.5 x 9 cm
	11.6 x 13.6 x 3.5 in
Weight	5.55 kg, 12.24 lbs

Operating Temperature	-40° to 60°C, -40° to 140°F
Storage Temperature	-45° to 70°C, -49° to 158°F
Operating relative humidity	10% - 95% (non-condensing)
Non-operating relative humidity	0% - 95% (non-condensing)

*About NBF (Netronics Beam Forming)

NBF Smart Antenna Technology lies at the core of the NetPoint Pro n2S5S 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.

