

NetPoint Pro n2C

The NetPoint Pro n2C is an Omni-directional multi-radio, which offers superior range and capacity by combining Netronics MIMO beam forming and the latest 802.11n Wi-Fi standard.

Combining 802.11n and MIMO beam forming, NetPoint Pro n2C delivers the most powerful Wi-Fi solution for outdoor deployments. By enhancing the beam forming to support multiple streams in MIMO configurations, NetPoint Pro n2C overcomes the technology limitations and extends the 802.11n range and capacity in noisy, urban environments.

Netronics Beam Forming (NBF) technology focuses communications to and from each client in a narrow beam. This advanced technology delivers 2 to 4 times the range and capacity, to any standard-based Wi-Fi client, in comparison to standard Wi-Fi access points. The beam forming technology combined with NetPoint Pro n2C specialized channel filters deliver 90% effective noise mitigation in harsh, outdoor environments.

NetPoint Pro n2C is the ideal solution for cellular operators deploying large scale 3G data offload and Wi-Fi access applications in dense urban conditions. NetPoint Pro n2C is designed for mounting on cellular towers, rooftops and poles. With multi-block interference mitigation including patented 3G, WiMAX & Wi-Fi channel filters, the NetPoint Pro n2C access point can be collocated with 3G BTS without performance degradation either for the AP or the 3G BST.



Product Highlights

- 802.11n Beam forming delivering unparalleled Wi-Fi coverage & capacity
- Superior 802.11 b/g/n accessed powered by NBF adaptive beam forming smart antenna technology
- Dedicated 802.11a radio for high-performance reliable mesh networking
- Field-proven 3G offload solution that delivers business value
- Co-location of Wi-Fi & 3G cells leveraging existing infrastructure assets
- Fast, easy & affordable deployment of a highquality network
- Seamless integration into the cellular operators' network
- Flexible mesh architecture reducing initial expenditure
- Maximum performance and interference mitigation
- Superior coverage and performance



Product Specifications

Radio

Wireless Network Standards	IEEE 802.11a/b/g/n																
Radio Interfaces	Access: 802.11b/g/n, Mesh: 802.11a/n																
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	2.4 GHz 5.8 GHz															
	Omni-directional	Horizontal			360°				Horizontal 360°								
		Vertical		20°				Vertical 15°									
		Gain			7.4 dl	3i				Gain		1	0 dBi				
Tx Power (typical EIRP)	Max EIRP	2.4 GHz 5 GHz															
		42 dBm							30 dBm								
Rx Sensitivity (FCC)	802.11b	1 Mbp)S	2 Mbp)S	5.5 M	bps	11 Mk	ps								
		-102 c	lBm	-99 dB	m	-95 dE	3m	-94 dE	3m								
	802.11g	6 Mbr)S	9 Mbp	S	12 M	ps	18 Mk	ps	24Mb	ps	36 Mb	ops	48 Mb	ps	54 Mb	ps
			-94 dB	-94 dBm -9		-94 dBm -92 dBm		3m	-90 dBm -8		-84 dE	84 dBm		-81 dBm		-80 dBm	
	802.11n	MCS	MCS	MCS	MCS	MCS	MCS	MCS	MCS	MCS	MCS	MCS	MCS	MCS	MCS	MCS	MCS
	@2.4 GHz	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
		-94	-93	-91	-89	-85	-82	-76	-73	-93	-92	-89	-86	-83	-78	-77	-74
		dBm	dBm	dBm	dBm	dBm	dBm	dBm	dBm	dBm	dBm	dBm	dBm	dBm	dBm	dBm	dBm
Modulation	802.11 b	L b DSSS (DBPSK , DQPSK, CCK)															
	802.11 a/g/n	OFDM (BPSK, QPSK, 16-QAM, 64-QAM)															

Networking

Wireless	WDS CPE support
	Multiple ESSIDs' & BSSIDs'
Authentication &	802.11i
Security	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 GBE
	IP67 Weatherproof RJ-45 Serial port
Power input	48 VDC
Power consumption	38 W

Dimensions (W x D x H)	33 x 24.5 x 7 cm
	13 x 9.6 x 2.8 in
Weight	4.95 kg, 10.9 lbs
Installation	Generic mount for pole and wall installations

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

Standards

EMC Standards	US: FCC Part 15.107 and 15.109
	Europe: EN 301.489-1 and -17
EMI and	US: FCC Part 15.107 and 15.109
Susceptibility (Class B)	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 n2C 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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