



NetAstra SU 5x10 AC

Subscriber Units – NetAstra SU 5x10 AC

NetAstra SU 5x10 AC is a Subscriber Unit (SU), provides high capacity access connectivity of up to 10 Mbps net aggregate throughput.

NetAstra SU 5x10 AC supports 4.9 to 5.9 GHz and complies with FCC, IC (Canada), WPC (India), MII (China) and Universal regulations.

NetAstra SU 5x10 AC comes with an integrated antenna.

Product Highlights

- Up to 10 Mbps net aggregate throughput
- Long range – up to 40 km/25 miles
- Guaranteed Service Level Agreement (SLA) per SU
- Exceptional short and constant latency
- Advanced MIMO, OFDM and Diversity technologies
- Robust and reliable operation in tough conditions, extreme temperatures and non line-of-sight scenarios
- Ease of operation and maintenance



Product Specifications

Configuration

Architecture	Outdoor Unit with integrated antenna
PoE to ODU Interface	Outdoor CAT-5e cable; Maximum cable length: 100 m for 10/100BaseT

Radio

Capacity	10 Mbps net aggregate throughput
Range	Up to 40 km / 25 miles
Channel Bandwidth	Configurable: 5, 10, 20 and 40 MHz (for the default band)
Modulation	2x2 MIMO-OFDM (BPSK/QPSK/16QAM/64QAM)
Adaptive Modulation & Coding	Supported
DFS	Not Supported (for the default band)
Diversity	Supported
Max Tx Power	25 dBm
Duplex Technology	TDD
Error Correction	FEC k = 1/2, 2/3, 3/4, 5/6
Encryption	AES 128; FIPS 197
Bandwidth allocation	Configurable: Symmetric and Asymmetric
Support Indoor units	Netronics PoE devices
Layer 2	Hub Mode
QoS	Packet classification to 4 priority queues according to 802.1p and Diffserv
VLAN Support	802.1Q, QinQ, 4094 VLANS

Supported Bands

Band	Channel BW 5 MHz	Channel BW 10 MHz	Channel BW 20 MHz	Channel BW 40 MHz	Radio Compliance
5.8 GHz FCC/IC*	5.7275 - 5.8475	5.725 - 5.850	5.725 - 5.850	5.725 - 5.850	FCC 47CFR Part 15.247; IC RSS-210
4.9 GHz Universal	4.8975 - 4.9925	4.895 - 4.995	4.890 - 5.000	4.880 - 5.000	Universal
5.1 GHz Universal	5.1475 - 5.3375	5.145 - 5.340	5.140 - 5.345	5.130 - 5.355	Universal
5.4 GHz Universal	5.4725 - 5.7225	5.470 - 5.725	5.465 - 5.730	5.455 - 5.740	Universal
5.8 GHz WPC	5.8275 - 5.8725	5.825 - 5.875	5.825 - 5.875	5.815 - 5.885	WPC (India) G.S.R 38(E) dated 19 January, 2007 Notification
5.8 GHz MII	5.7375 - 5.8375	5.735 - 5.840	5.730 - 5.845	5.720 - 5.855	CMIIT RTA
5.9 GHz Universal	5.7275 - 5.9525	5.725 - 5.955	5.720 - 5.960	5.710 - 5.970	Universal

* Default Band

Mechanical	
ODU Dimensions	24(w) x 20(h) x 8(d) cm
ODU Weight	1.5 kg / 3.31 lbs
Power	
Power Feeding	Direct AC power feeding 85-265VAC
Power Consumption	<12W without Powered-Device; <27 with Powered-Device of 802.3af
Environmental	
Operating Temperatures	-35°C to 60°C / -31°F to 140°F
Humidity	100% condensing, IP67 (totally protected against dust and against immersion up to 1 m)
Safety	
FCC/IC (cTUVus)	UL 60950-1, UL 60950-22, CAN/CSA C22.2 60950-1, CAN/CSA C22.2 60950-22
ETSI	EN/IEC 60950-1, EN/IEC 60950-22
EMC	
FCC	47 CFR Class B, Part15, Subpart B
ETSI	EN 300 386, EN 301 489-1, EN 301 489-4
CAN/CSA-CEI/IEC	CISPR 22-04 Class B



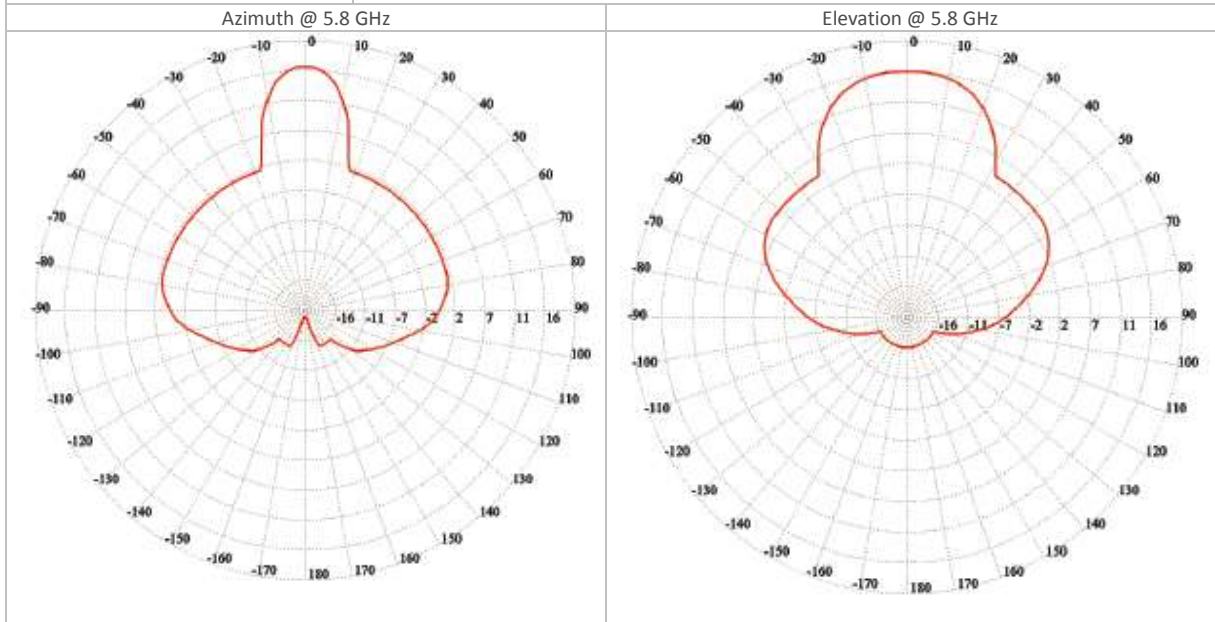
600-15 Allstate Parkway, Markham
 Ontario, Canada
 Tel: +1 (905) 415 4585
 Email: info@netronics-networks.com

Netronics-networks.com

Integrated Antenna

Gain	15 dBi
VSWR	1.5 : 1 (typ)
3 dB Beam width	15° (typ)
AZ & EL Beam Squint	5° (typ)
Polarization	Dual Linear (Vertical and Horizontal)
Side lobes Level	ETSI EN 302 326-3 V 1.1.2 (2006-03) DN1
Cross Polarization	ETSI EN 302 326-3 V 1.1.2 (2006-03) DN2
F/B Ratio	-25 dB
Port To Port Isolation	20 dB (typ)
Lightning Protection	DC grounded

Antenna Pattern



600-15 Allstate Parkway, Markham
Ontario, Canada
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