



NetAstra SU 3x10 S

Subscriber Unit – NetAstra SU 3x10 S

NetAstra SU 3x10 S is a Subscriber Unit (SU) provides high capacity access connectivity of up to 10 Mbps net aggregate throughput.

NetAstra SU 3x10 S supports 3.5 GHz and complies with FCC/IC, Universal & IC regulations.

NetAstra SU 3x10 S 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 harsh conditions, extreme temperatures and non-line-of-sight scenarios
- Ease of operation and maintenance



Product Specifications

Configuration

Architecture	Outdoor Unit with an 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; AES 256 optional (via Software License Key)
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
3.6 GHz FCC/IC*	3.6505 - 3.6995	3.650 - 3.700	3.650 - 3.700	3.650 - 3.700	FCC 47CFR Part 90 subpart Z; IC RSS-197
3.5 GHz Universal	3.2975 - 3.8025	3.295 - 3.805	3.290 - 3.810	3.280 - 3.820	Universal
3.5 GHz IC	3.4755 - 3.6495	3.473 - 3.652	3.468 - 3.657	3.458 - 3.667	IC RSS-192

* Default Band

Mechanical	
ODU Dimensions	37(w) x 37(h) x 11(d) cm
ODU Weight	3.6 kg / 7.94 lbs
Power	
Power Feeding	Power provided over ODU-IDU cable
Power Consumption	<12 W
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	CFR47 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



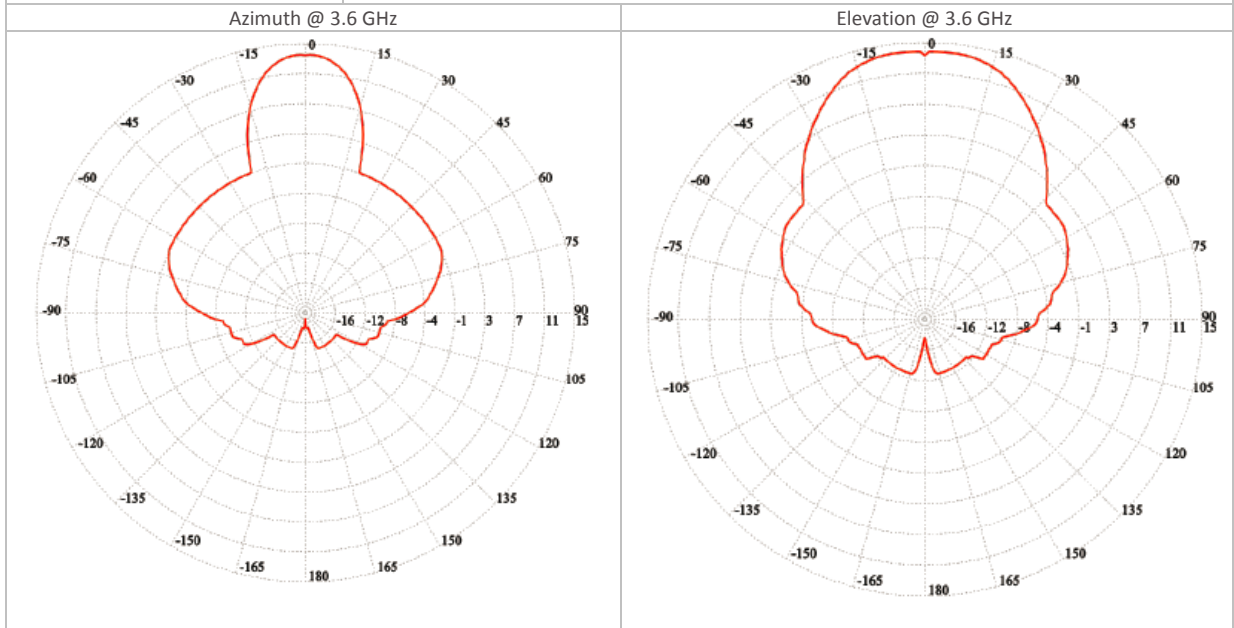
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Integrated Antenna

Gain	13 dBi
VSWR	1.5 : 1 (typ)
3 dB Beam width	20° (typ)
AZ & EL Beam Squint	6° (typ)
Polarization	Dual Linear (Vertical and Horizontal)
Side lobes Level	ETSI EN 302 326-3 V1.1.2 (2006-03) DN2
Cross Polarization	-11 dB (typ)
F/B Ratio	-20 dB
Port To Port Isolation	15 dB (typ)
Lightning Protection	DC grounded

Antenna Pattern



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