



## NetAstra SU 3x25

### Subscriber Unit – NetAstra SU 3x25

NetAstra SU 3x25 is a Subscriber Unit (SU), providing high capacity access connectivity of up to 25 Mbps net aggregate throughput.

NetAstra SU 3x25 supports 3.4 to 3.6 GHz and complies with ETSI regulations.

NetAstra SU 3x25 comes with an integrated antenna.

### Product Highlights

- Up to 25 Mbps net aggregate throughput
- Long range – up to 40 km/25 miles
- Guaranteed Service Level Agreement (SLA) per SU
- Outstanding 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	25 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
<b>3.5 GHz ETSI*</b>	<b>3.4105 - 3.7025</b>	<b>3.408 - 3.705</b>	<b>3.403 - 3.710</b>	<b>3.393 - 3.720</b>	<b>EN 302 326-2</b>
3.413-3.480 GHz ETSI	-	3.408 - 3.485	3.403 - 3.490	3.393 - 3.500	EN 302 326-2
3.480-3.600 GHz ETSI	-	3.475 - 3.605	3.470 - 3.610	3.460 - 3.620	EN 302 326-2
3.6 GHz ETSI	-	3.595 - 3.705	3.590 - 3.710	3.580 - 3.720	EN 302 326-2

\* 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

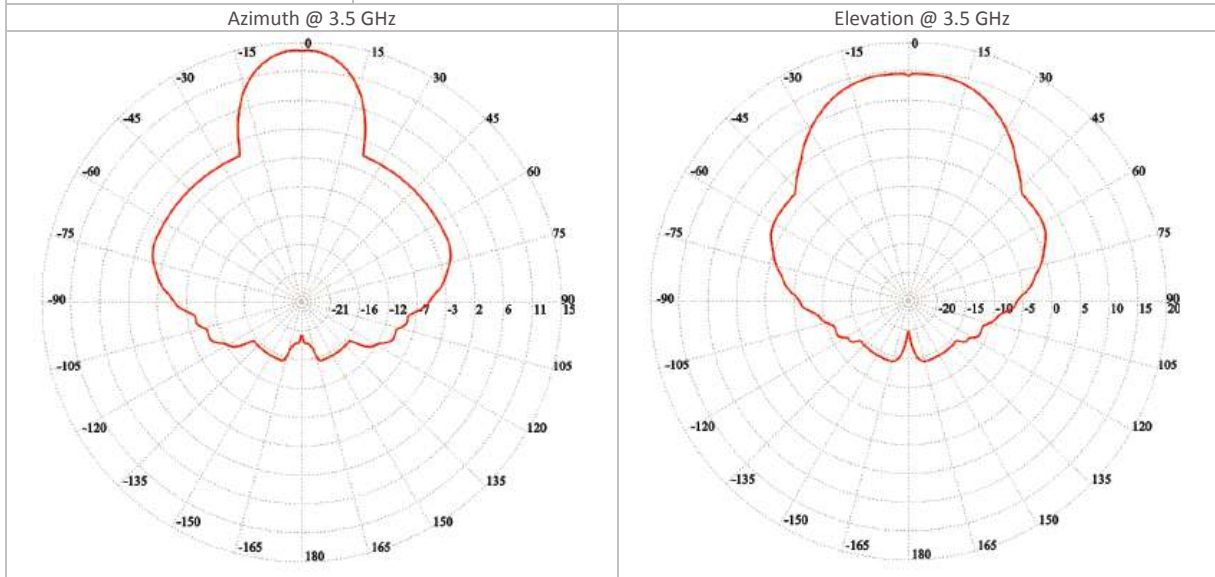
FCC	47 CFR Class B, Part15, Subpart B
ETSI	EN 300 386, EN 301 489-1, EN 301 489-4
CAN/CSA-CEI/IEC	CISPR 22-04 Class B



### 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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