



NetAstra SU 2x25

Subscriber Unit – NetAstra SU 2x25

NetAstra SU 2x25 is a Subscriber Unit (SU), providing high capacity access connectivity of up to 25 Mbps net aggregate throughput. NetAstra SU 2x25 works with NetAstra AU 2x100.

NetAstra SU 2x25 supports 2.5 GHz and complies with FCC/BRS regulations.

NetAstra SU 2x25 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
- Excellent operation in nLOS and NLOS 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 and 20 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; max EIRP 47 dBm (for the default band)
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
2.5 GHz FCC/BRS	2.4965 - 2.6925	2.494 - 2.695	2.489 - 2.700	-	FCC 47CFR Part 27 Subpart M

Mechanical

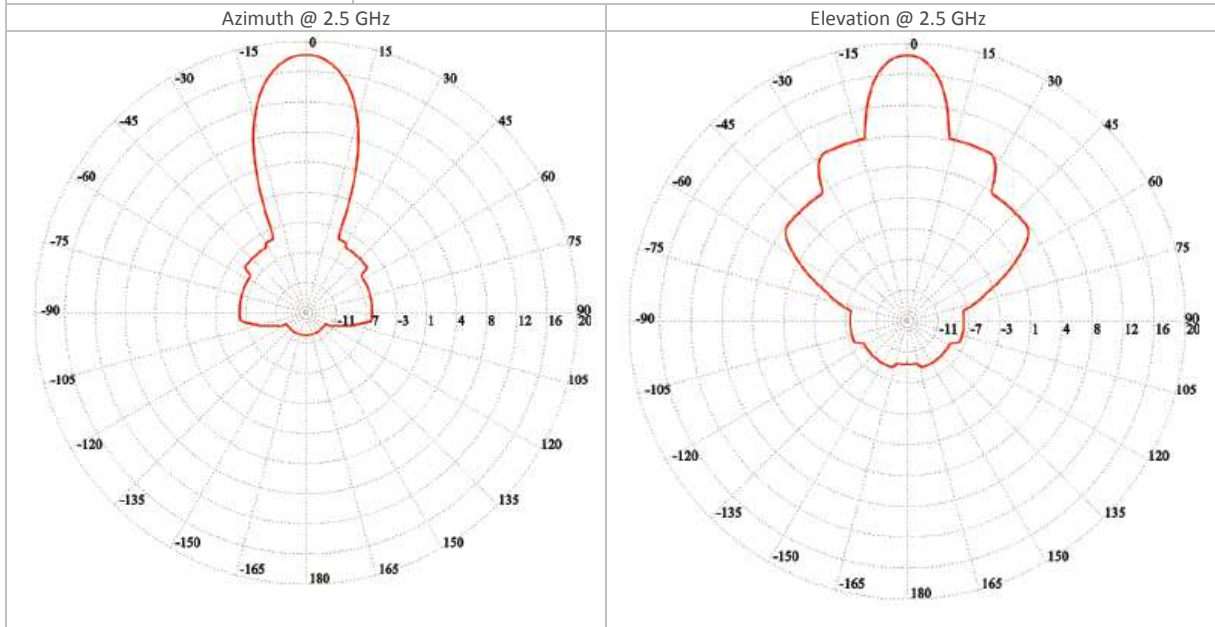
ODU Dimensions	37(w) x 37(h) x 11(d) cm
ODU Weight	3.6 kg / 7.94 lbs
Power	
Power Feeding	Power provided over ODU-IDU cable
Power Consumption	<25 W
Environmental	
Operating Temperatures	-35°C to 60°C / -31°F to 140°F
Humidity	100% condensing, IP67 (totally protected against dust and against immersion 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	19 dBi
VSWR	1.5 : 1 (typ)
3 dB Beam width	16° (typ)
AZ & EL Beam Squint	Port V & Port H $\pm 2^\circ$
Polarization	Dual Linear (Vertical and Horizontal)
Side lobes Level	ETSI EN 301 525 V 1.1.1. TS3
Cross Polarization	ETSI EN 301 525 V 1.1.1. TS3
F/B Ratio	-30 dB
Port To Port Isolation	30 dB (min)
Lightning Protection	DC grounded

Antenna Pattern



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

Netronics-networks.com