



NetAstra SU 2450

Subscriber Unit – NetAstra SU 2450

NetAstra SU 2450 is a Subscriber Unit (SU), providing high capacity access connectivity of up to 50 Mbps net aggregate throughput.

NetAstra SU 2450 supports 2.3 to 2.4 GHz and complies with FCC/IC & Universal regulations.

NetAstra SU 2450 comes with an integrated antenna.

Product Highlights

- Up to 50 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 and 75 m for 1000BaseT

Radio

Capacity	50 Mbps net aggregate throughput
Range	Up to 40 km / 25 miles
Channel Bandwidth	Configurable: 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	26 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
2.4 GHz FCC/IC*	-	2.407 - 2.467	2.402 - 2.472	2.392 - 2.482	FCC 47CFR Part 15.247; IC RSS-210
2.4 GHz Universal	-	2.302 - 2.477	2.297 - 2.482	2.287 - 2.492	Universal

*Default Band

Mechanical	
ODU Dimensions	30(w) x 30(h) x 10(d) cm
ODU Weight	2.9 kg / 6.39 lbs
Power	
Power Feeding	Power provided over ODU-IDU cable
Power Consumption	<20 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



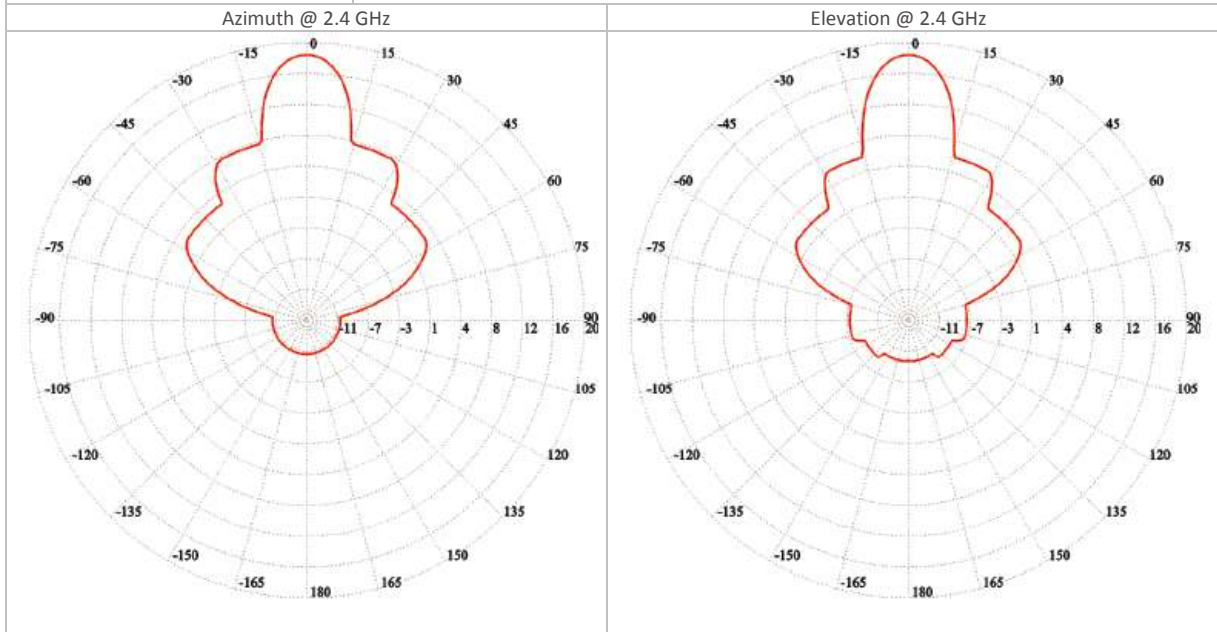
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Integrated Antenna

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



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