



NetAstra AU 2x100

Sector Base Station – NetAstra AU 2x100

NetAstra AU 2x100 is a Sector Base Station Radio unit, providing up to 100 Mbps net aggregate throughput while delivering access connectivity up to 32 Subscriber Units (SUs).

NetAstra AU 2x100 supports 2.5 GHz and complies with FCC.

NetAstra AU 2x100 is connectorized for external antenna (2 xN-type).

Product Highlights

- Up to 100 Mbps aggregated throughput
- Guaranteed Service Level Agreement (SLA) per SU
- Outstanding short and constant latency
- Support up to 32 SUs
- Long range – up to 40 km/25 miles
- Advanced MIMO, OFDM and Diversity technologies
- Excellent operation in nLOS and NLOS scenarios
- Robust and reliable to operate in tough conditions, extreme temperatures
- Ease of operation and maintenance



Product Specifications

Configuration

Architecture	Outdoor Unit Connectorized for external antenna (2 xN-type)
PoE to ODU Interface	Outdoor CAT-5e; Maximum cable length: 100 m for 10/100BaseT and 75 m for 1000BaseT

Radio

Capacity	100 Mbps net aggregate throughput
Subscriber Units (HSUs) support	Up to 32 SUs
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
Duplex Technology	TDD
Error Correction	FEC k = 1/2, 2/3, 3/4, 5/6
Encryption	AES 128; FIPS 197
Supporting Indoor units	Netronics PoE device
Bandwidth allocation	Configurable: Symmetric and Asymmetric
End to End Latency	Typical: 3.5 msec @ 2 SUs; 20 msec @ 32 SUs
Layers 2	Bridging learning of 5K MAC addresses
QoS	Packet classification to 4 priority queues according to 802.1p and Diffserv
VLAN Support	802.1Q, QinQ, 4094 VLANs
TDD Intra Site Synchronization	Supported
TDD Inter Site Synchronization	Supported through common GPS receiver per site

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	28(w) x 19.5(h) x 8(d) cm
ODU Weight	2.4 kg / 5.29 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

