



## NetAstra AU 5x25

### Sector Base Station – NetAstra AU 5x25

NetAstra AU 5x25 is a Sector Base Station Radio unit, providing up to 25 Mbps net aggregate throughput while delivering access connectivity for up to 16 Subscriber Units (SUs).

NetAstra AU 5x25 supports 4.9 to 5.9 GHz and complies with FCC/IC, WPC (India), MII (China) and Universal regulations (factory default: 5.8 GHz FCC/IC).

NetAstra AU 5x25 is connectorized for external antenna (2 xN-type).

### Product Highlights

- Up to 25 Mbps net aggregate throughput
- Long range – up to 40 km/25 miles
- Guaranteed Service Level Agreement (SLA) per Subscriber Unit (SU)
- Support up to 16 Subscriber Units (SUs)
- Exceptional short and constant latency
- Advanced MIMO, OFDM and Diversity technologies
- Single radio supporting multiple bands
- 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 Connectorized for external antenna (2 xN-type)
IDU to ODU Interface	Outdoor CAT-5e; Maximum cable length: 100 m for 10/100BaseT and 75 m for 1000BaseT

### Radio

Capacity	25 Mbps net aggregate throughput
Subscriber Units (SUs) support	Up to 16 SUs
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)
Bandwidth allocation	Configurable: Symmetric and Asymmetric
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
Support Indoor units	Netronics PoE devices
End to End Latency	Typical: 3.5 msec @ 2 SUs; 12 msec @ 16 SUs
Layer 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
<b>5.8 GHz FCC/IC*</b>	<b>5.7275 - 5.8475</b>	<b>5.725 - 5.850</b>	<b>5.725 - 5.850</b>	<b>5.725 - 5.850</b>	<b>FCC 47CFR Part 15.247; IC RSS-210</b>
4.9 GHz FCC/IC	4.9425 - 4.9875	4.940 - 4.990	4.940 - 4.990	-	FCC 47CFR Part 90 Subpart Y; IC RSS-111
4.9 GHz Universal	4.8975 - 4.9925	4.895 - 4.995	4.890 - 5.000	4.880 - 5.000	Universal
5.1 GHz Universal	5.1475 - 5.3375	5.145 - 5.340	5.140 - 5.345	5.130 - 5.355	Universal
5.2 GHz FCC/IC	5.2525 - 5.3475	5.255 - 5.345	5.255 - 5.345	5.255 - 5.345	FCC 47CFR Part 15.407; IC RSS-210
5.4 GHz FCC/IC	5.4775 - 5.7175	5.480 - 5.715	5.480 - 5.715	5.480 - 5.715	FCC 47CFR Part 15.407; IC RSS-210
5.4 GHz Universal	5.4725 - 5.7225	5.470 - 5.725	5.465 - 5.730	5.455 - 5.740	Universal
5.8 GHz WPC	5.8275 - 5.8725	5.825 - 5.875	5.825 - 5.875	5.815 - 5.885	WPC (India) G.S.R 38(E) dated 19 January, 2007 Notification
5.8 GHz MII	5.7375 - 5.8375	5.735 - 5.840	5.730 - 5.845	5.720 - 5.855	CMIIT RTA
5.9 GHz Universal	5.7275 - 5.9525	5.725 - 5.955	5.720 - 5.960	5.710 - 5.970	Universal

\* Default Band

### Mechanical

ODU Dimensions	21(w) x 17(h) x 7(d) cm
ODU Weight	1.2 kg / 2.65 lbs
<b>Power</b>	
Power Feeding	Power provided over ODU-IDU cable
Power Consumption	<12 W
<b>Environmental</b>	
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)
<b>Safety</b>	
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
<b>EMC</b>	
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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