



## NetAstra SUM 5x100

NetAstra SUM 5x100 is a Mobile Unit (SUM), providing high capacity access connectivity of up to 100 Mbps net aggregate throughput.

NetAstra SUM 5x100 supports 4.9 to 5.9 GHz and complies with FCC/IC, Universal & ETSI regulations.

NetAstra SUM 5x100 is connectorized for external antenna (2 xN-type).

### Product Highlights

- Up to 100 Mbps net aggregate throughput
- Long range – up to 40 km/25 miles
- Guaranteed Service Level Agreement (SLA) per SU
- Outstanding short and constant latency
- Advance MIMO, OFDM and Diversity technologies
- Robust and reliable to operate in tough conditions and 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 cable; Maximum cable length: 100 m for 10/100BaseT and 75 m for 1000BaseT
<b>Radio</b>	
Capacity	100 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; AES 256 optional (via Software License Key)
Supported Indoor Units	Netronics PoE devices
Bandwidth allocation	Configurable: Symmetric and Asymmetric
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>5.4 GHz Universal*</b>	<b>5.4725-5.7225</b>	<b>5.470-5.725</b>	<b>5.465-5.730</b>	<b>5.455-5.740</b>	<b>Universal</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
5.3 GHz ETSI	-	5.150-5.350	5.150-5.350	-	EN 301 893
5.4 GHz ETSI	-	5.475-5.720	5.470-5.725	5.470-5.725	EN 301 893
5.8 GHz ETSI	-	5.725-5.875	5.725-5.875	-	EN 302 502
5.8 GHz FCC/IC	5.7275-5.8475	5.725-5.850	5.725-5.850	5.725-5.850	FCC 47CFR Part 15.247; IC RSS-210
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	28(w) x 19.5(h) x 8(d) cm
ODU Weight	2.4 kg / 5.29 lbs
<b>Power</b>	
Power Feeding	Power provided over ODU-IDU cable
Power Consumption	<20 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	CFR47 Class B, Part15, Subpart B
ETSI	EN 300 386, EN 301 489-1, EN 301 489-4, EN 50155, EN 50121-3-2
CAN/CSA-CEI/IEC	CISPR 22-04 Class B



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