



NetAstra SUV 5x50

NetAstra SUV 5x50 is a ruggedized vehicular mobile radio unit, specially designed for deployment in vehicles or fully outdoor environment, connecting directly to the vehicle power source.

The NetAstra SUV 5x50 communicates with Netronics mobility base station. It provides high capacity access connectivity in motion of up to 50 Mbps net aggregate throughput. NetAstra SUV 5x50 supports 4.9 to 5.9 GHz and complies with FCC/IC, ETSI and Universal regulations.

NetAstra SUV 5x50 provides also Wi-Fi access point functionality that allows connectivity of multiple Wi-Fi devices in and around the vehicle to the broadband backhaul.

Product Highlights

- Up to 50 Mbps net aggregate throughput
- Wide range – up to 10 km/6.2 miles
- High speed – up to 250 Km/h
- Access-Point functionality for Wi-Fi devices
- Built-in GPS for vehicle tracking and location-based solutions
- Connects directly to the vehicle power source
- Outstanding short and constant latency
- Single radio supports multiple-bands
- 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
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Radio

Capacity	50 Mbps net aggregate throughput
Range	Up to 10 km / 6.2 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
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

Wi-Fi Access Point Radio

Frequency Band	2.4 GHz; IEEE 802.11b/g/n
Modulation	2x2 MIMO-OFDM (BPSK/QPSK/16QAM/64QAM)
Channel Bandwidth	Configurable: 20 or 40 MHz
Max Tx Power	26 dBm
Encryption	WEP, WPA-PSK, WPA-TKIP, WPA2 AES, RADIUS
Virtual AP	Up to 8 BSSIDs
Concurrent Clients	Up to 256

GPS

Type	Autonomous GPS with 1 external antenna, supporting NMEA, TAIP
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Interfaces

LAN	Auto-sensing 10/100BaseT; M12 Connector
POE-out	Auto-sensing 10/100BaseT + PoE-out 802.3af; M12 Connector
Alarms	2 alarm-input; 2 relay-output; M12 Connector

Supported Bands

Band	Channel BW 5 MHz	Channel BW 10 MHz	Channel BW 20 MHz	Channel BW 40 MHz	Radio Compliance
5.4 GHz Universal*	5.4725-5.7225	5.470-5.725	5.465-5.730	5.455-5.740	Universal
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	26(w) x 4(h) x 19.8(d) cm
ODU Weight	1.9 kg / 4.19 lbs

Power

Power Feeding	10-36 V; Can be connected directly to the vehicle power source; Protection against surges, spikes and over current
Power Ignition	Safe battery operation; On/off ignition detection
Power Consumption	<40 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	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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