



NetStream 5x10 DS1

NetStream 5x10 DS1 is a carrier-class radio supporting the 5.x GHz bands FCC, IC (Canada), MII (China) and WPC (India) regulations (factory default: 5.8 GHz FCC). The multi-band radio is part of the NetStream Series that delivers 10 Mbps throughput and extended range.

Providing Ethernet over a single wireless link, the NetStream 5x10 provides 10 Mbps net aggregate throughput.

NetStream 5x10 DS1 comes with an integrated antenna.

Product Highlights

- 10 Mbps Ethernet net throughput
- Adaptive asymmetric throughput – dynamic allocation between uplink and downlink
- Single radio supporting multiple bands (5.x GHz)
- Advanced MIMO, OFDM and Diversity technologies
- Robust and reliable to operate in tough conditions, extreme temperatures and non line-of-sight scenarios



Product Specifications

Configuration

Architecture	Outdoor Unit Connectorized for External Antenna
PoE to ODU Interface	Outdoor CAT-5e cable; Maximum cable length: 100 m

Radio

Capacity	10 Mbps net aggregate throughput
Range	Up to 40 km / 25 miles
Channel Bandwidth	Configurable: 10 and 20 MHz
Modulation	2x2 MIMO-OFDM (BPSK/QPSK/16QAM/64QAM)
Adaptive Modulation & Coding	Supported
Automatic Channel Selection	Supported
Diversity	Supported
Spectrum View	Supported
DFS	Supported
Transmit Power Control	Supported
Min Tx Power	1 dBm adjustable in 0.5 dBm steps
Max Tx Power	25 dBm adjustable in 0.5 dBm steps
Duplex Technology	TDD
Error Correction	FEC k = 1/2, 2/3, 3/4, 5/6
Encryption	AES 128
Ethernet Interface	10/100BaseT
Supported Indoor Units	IDU-NetStream RM 2xGBe and IDU-NetStream RM 4xE1 2xEth; ODU NetStream 5836 POE; NetStream PoE device
QoS	Packet classification to 4 queues according to 802.1p and Diffserv, Dynamic scheduling according to air interface changes
VLAN	Supported
Ethernet Ring Protection	Supported, including Ethernet 1+1
Monitored Hot Standby (MHS)	1+1 with NetStream links

Supported Bands

Band	Occupied Frequency Range		
	Channel BW 10 MHz	Channel BW 20 MHz	Radio Compliance
5.8 GHz FCC/IC*	5.725-5.850 GHz	5.725-5.850 GHz	Non FCC certified
5.9 GHz Universal	5.735-5.955 GHz	5.730-5.960 GHz	
5.8 GHz MII China	5.735-5.840 GHz	5.730-5.845 GHz	MII for 5.8 GHz
5.8 GHz WPC India	5.830-5.870 GHz	5.825-5.875 GHz	WPC GSR-38
5.4 GHz Universal	5.470-5.725 GHz	5.465-5.730 GHz	
5.3 GHz Universal	5.145-5.340 GHz	5.140-5.345 GHz	
4.9 GHz Universal	4.895-4.995 GHz	4.890-5.000 GHz	
* Default Band			

Mechanical

ODU Dimensions	17.1(w) x 19.6(h) x 7.2(d) cm
ODU Weight	1.1 kg / 2.4 lbs

Power

Power Feeding	Power provided over ODU-IDU cable
Power Consumption	<10 W

Environmental

Operating Temperatures	-35°C - 60°C / -31°F - 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
CAN/CSA-CEI/IEC	CISPR 22-04 Class B
AS/NZS	CISPR 22-2004 Class B



Part Number	Description
NS 5x10 DS1	Outdoor Unit Connectorized for External Antenna

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