



NetStream 3x200 D

NetStream 3x200 is a carrier-class radio that supports 3.5 GHz and complies with FCC, IC and Universal regulations (factory default: 3.5 GHz FCC/IC). This radio is part of the NetStream Series that delivers high capacity and extended range for carriers' backhaul needs.

Packing native TDM and Ethernet over a single wireless link, NetStream 3x200 provides 100 Mbps net aggregate throughput and up to 16 E1/T1 plus Ethernet.

NetStream 3x200 is connectorized for use with external antenna (2 xN-type).

Product Highlights

- 100 Mbps Ethernet net throughput and up to 16 E1s/T1s (Native TDM transport)
- Long range up to 120 km/75 miles
- Supports intra-site and inter-site TDD synchronization to maximize network capacity
- Adaptive asymmetric throughput dynamic allocation between uplink and downlink
- Advanced OFDM & MIMO technologies for operation in nLOS/NLOS and dense radio environments
- Robust and reliable to operate in tough conditions and extreme temperatures



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	100 Mbps net aggregate throughput (up to 16 E1s/T1s plus Ethernet)			
Range	Up to 120 km / 75 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			
Automatic Channel Selection	Supported			
DFS	Not Supported (for the default band)			
Diversity	Supported			
Spectrum Viewer	Supported			
Max Tx Power	25 dBm			
Duplex Technology	TDD			
Error Correction	FEC k = 1/2, 2/3, 3/4, 5/6			
Processing speed	380,000 PPS			
Encryption	AES 128; FIPS 197			
Support Indoor units	IDU-NetStream RM and DT; NetStream PoE devices			
Bandwidth Allocation	Configurable: Symmetric or Asymmetric			
QoS	Packet classification to 4 priority queues according to 802.1p and Diffserv			
VLAN Support	802.1Q, QinQ, 4094 VLANs			
Ethernet Ring Protection	Supported, including Ethernet 1+1			
TDD Intra Site Synchronization	Supported			
TDD Inter Site Synchronization	Supported through common GPS receiver per site			
Monitored Hot Standby (MHS)	1+1 with NetStream link			

Channel BW 5 MHz	Channel BW 10 MHz	Channel BW 20 MHz	Radio Compliance
3.6505 - 3.6745	3.650 - 3.675	3.650 - 3.675	FCC 47CFR Part 90 subpart Z; IC RSS-197
3.4755 - 3.6495	3.473 - 3.652	3.468 - 3.657	IC RSS-192
3.2975 - 3.8025	3.295 - 3.805	3.290 - 3.810	Universal
3.3975 - 3.7025	3.395 - 3.705	3.390 - 3.710	Universal
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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	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



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