

BM5X23DOE30

BreezeAir 8000 ET 5.x GHz 30Mbps radio, integrated 23dBi dual polarization antenna

Telrad's BreezeAIR 8000 ET is the complete solution for Service Providers and Operators, offering extensive portfolio with net throughput up to 200 Mbps and 'pay as you grow' upgrade capabilities. BreezeAIR 8000 ET provides most robust, reliable and flexible Point-to-Point and Point-to-Multipoint connectivity solution for Public & Private Enterprises, WiFi hotspots and BWA/LTE backhaul sites.

Specifications

Radio	
Radio Frequency	4.8-6.0 GHz
Antenna	Outdoor Radio Unit with integrated 23 dBi dual polarization antenna
Net Throughput	30 Mbps - MIMO (License scalable 10 - 200 Mbps)
PPS	Up to 400,000 Packets Per Second
Channel Size	5/7/10/14/20/28MHz
Waveform	Advanced OFDM 2x2 dual polarization MIMO - BPSK, QPSK, 16QAM, 64QAM: Hitless 7 stages Adaptive Coding & Modulation (ACM), Fixed modulation mode, LDPC coding, Configurable modulation thresholds (min/ max)
Output Power	Up to 30 dBm, configurable in 1dB step
Handling Interference	<ul style="list-style-type: none">• AIS - Automatic Interference Sensibility• Hitless ACM - Adaptive Coding & Modulation• ACS - Automatic Channel Selection• FEC - Forward Error Correction, k = 1/2, 2/3, 3/4, 5/6• Fastest ARQ - Automatic Retransmit reQuest• TDD and FDD modes - software configurable
Encryption & Security	128-bit AES & MAC level authentication



Networking and Management	
Topology	Point-to-Point (PTP) - (License/Software configurable)
Access Technology	Time Division Duplex (TDD) & Frequency Division Duplex (FDD) Time Division Multiple Access (TDMA) - dynamic or symmetric
Data Latency	1ms typical per SU
Jumbo Frames	Supported
Network Modes	Layer 2 Bridge, VLAN, QinQ, VLAN / broadcast / IP filters, Layer 3 Routing, NAT, DHCP server, DHCP Relay
VLAN	Transparent, VLAN filter, tagging/stripping, QinQ
QoS	8 priority queues based on 802.1p, TOS and DSCP
Traffic Shaping	Bandwidth control for uplink and downlink independently
Management	ViewAir NMS, WEB, SNMP, Telnet, NBI CORBA, EMS (Link Manager) Built in throughput test, RF Analyzer and path profiling tools
Performance Management	Real time & history - logs and counters of traffic and radio data

Physical and Environmental	
Physical Interface	1 x 10/100 Base-T
Connector Type	1 x RJ-45
Dimensions and Weight	30 x 30 x 6 cm <2Kg
PoE Adapter: <ul style="list-style-type: none">• AC-DC• DC-DC	Input: 100-240 VAC, 47-63 Hz; Dimensions: 12 x 6 x 3.5 cm Input: 10-60 VDC; Dimensions: 16 x 6 x 3 cm
Power Consumption	<7 Watt
IP Rating	IP67
Operating Temperature	-55°C to 65°C
Operating Humidity	100% non condensing (Rainproof)