

# BM5X23D001H

## BreezeAir 8000 5.x GHz 100Mbps radio, integrated 23 dBi dual polarization antenna

Telrad's BreezeAIR 8000 is the complete solution for Service Providers and Operators, offering extensive portfolio with net throughput up to 310 Mbps and 'pay as you grow' upgrade capabilities. BreezeAIR 8000 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	
<b>Radio Frequency</b>	4.8-6.0 GHz
<b>Antenna</b>	Outdoor Radio Unit with integrated 23 dBi dual polarization antenna
<b>Net Throughput</b>	100 Mbps - MIMO (License scalable 10 - 310 Mbps) (up to 375 Mbps air bit rate)
<b>PPS</b>	Up to 400,000 Packets Per Second
<b>Channel Size</b>	5/7/10/14/20/28/40MHz (SW License Configurable up to 50 MHz)
<b>Waveform</b>	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)
<b>Output Power</b>	Up to 30 dBm, configurable in 1dB step
<b>Handling Interference</b>	<ul style="list-style-type: none"><li>• AIS - Automatic Interference Sensibility</li><li>• Hitless ACM - Adaptive Coding &amp; Modulation</li><li>• ACS - Automatic Channel Selection</li><li>• FEC - Forward Error Correction, k = 1/2, 2/3, 3/4, 5/6</li><li>• Fastest ARQ - Automatic Retransmit reQuest</li><li>• TDD and FDD modes - software configurable</li></ul>
<b>Encryption &amp; Security</b>	128-bit AES & MAC level authentication



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

Physical and Environmental	
<b>Physical Interface</b>	2x 10/100/1000 Base-T (ODU)
<b>Connector Type</b>	2x RJ-45
<b>Dimensions and Weight</b>	305 x 305 x 70 mm
<b>PoE Adapter:</b> <ul style="list-style-type: none"><li>• AC-DC</li><li>• DC-DC</li></ul>	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
<b>Power Consumption</b>	<7 Watt
<b>IP Rating</b>	IP67
<b>Operating Temperature</b>	-40°C to 60°C
<b>Operating Humidity</b>	100% non condensing (Rainproof)