Breeze**AIR** 8000

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

Radio Frequency	700 MHz, 900 MHz, 2.0-2.3 GHz, 2.3-2.7 GHz, 3.3-3.8 GHz 4.8-6.0 GHz, 5.6-6.4 GHz, 6.0-7.0 GHz, 7.0-7.8 GHz, 10.0-10.7 GHz
Net Throughput	• MIMO: scalable 5 - 310 Mbps (up to 375 Mbps air bit rate) • SISO: scalable 5 - 150 Mbps (up to 187.5 Mbps air bit rate)
PPS	Up to 400,000 Packets Per Second
Channel Size	Configurable - 3.5/5/7/10/14/20/28/40/50 MHz
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	• 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), Point-to-Multipoint (PTMP) - 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	2x 10/100/1000 Base-T (ODU)
Connector Type	2x RJ-45
Dimensions and Weight	19 x 19 x 4 cm, <1 Kg (connectorized)
PoE Adapter: • 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	-40°c to 60°c
Operating Humidity	100% non condensing (Rainproof)

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