



BreezeMAX[®] Si 4000

Simply Connect to the World of WiMAX[™]

The BreezeMAX Si family is part of Telrad's rich portfolio of WiMAX end user devices. Meet mass-market needs at reduced operational costs with optimal in-building coverage, and zero touch installation and provisioning.

Ideal for Residential and SOHO Use

BreezeMAX Si is a family of compact, single-box indoor access units. Designed to address the needs of residential and SOHO users, it combines a range of features including easy plug-and-play installation, NLOS capabilities for in-building coverage and optional battery backup for primary voice service. BreezeMAX Si supports the 2.3, 2.5 and 3.5 GHz frequency bands and includes a range of built-in technologies, such as advanced antenna scanning, hybrid ARQ, sub-channelization and high receive sensitivity to ensure enhanced coverage, capacity and user throughput.

Zero Touch Installation and Provisioning

BreezeMAX Si is an easy-to-use plug and play solution, offering data, voice and WiFi interfaces in a compact desk-mounted box. BreezeMAX Si is designed with intelligent automatic provisioning methods, improving both the top and bottom lines. Zero touch installation and provisioning enables reduced operational costs (OPEX) and speeds up deployment of new devices, resulting in faster time-to-money for new networks.

BreezeMAX Si Highlights

- IEEE 802.16e-2005 Wave 2 compliant
- Designed for residential and SOHO use
- Non-Line-of-Sight (NLOS) support for in-building coverage
- Plug-and-play installation and provisioning
- Compact, desk-mounted indoor WiMAX device
- Various physical interfaces: up to 4 data ports, 2 VoIP FXS ports and WiFi access point
- Optional frequencies: 2.3*, 2.5* or 3.5 GHz
- Coverage range of up to 3 km
- Carrier-grade network management system simplifying network deployment and rapid expansions

* Future

Specifications

Physical Interface

LAN	1 x 10/100 Base-T port
VoIP	1 x SIP FXS port
WiFi	802.11b/g (only 3.5 GHz)

WiMAX Features

Standard Compliance	IEEE 802.16e-2005
Duplex Mode	TDD
Frequency Bands	
2.x GHz*	2485-2695 MHz
3.x GHz*	3400-3600 MHz
Channel bandwidth	5, 7, 10 MHz
Modulation	QPSK, 16QAM, 64QAM
Transmit Power	28dBm
Antenna Type	2 x Embedded Dipole
Antenna Gain	5dBi
Authentication	EAP-TTLS, EAP-TLS (optional)
QoS	BE, RT, NRT, ERT, UGS

* 2.3, 2.5 GHz: Future

VoIP Features (optional)

Standard Compliance	SIP v2 RFC 3261
Voice Codecs	G.711 (a-law and u-law), G.729ab, T38
Call Features	Call transfer, call waiting, 3- way conference call, call blocking, call forwarding

WiFi Features

Standard Compliance	802.11b/g
WiFi Security	WEP encryption 64, 128 bit

Networking Features

Device Management	Web, TR-069, OMA-DM
Firewall	Yes
WAN	NAT IP CS, multiple DHCP clients, Eth/VLAN CS, Static IP, internal PPPoE client, internal L2TP client, internal PPTP client, IPsec VPN client
NAT	NAT, Virtual Server, Special Application DMZ Host
VPN	Internal VPN clients, L2TP, PPTP with or w/o IPSEC per configuration Supports NAT transversal for transparent VPN Transfer

Mechanical Features

Dimensions (HxWxD)	230x155x35 mm
Power Source	100-240 VAC, 50-60 Hz

Standards and Regulations

EMC	FCC Part 15B Class B ETSI EN 301 489-1/4 EN 55022 Class B
Radio	FCC Part 25, 27 EN 300 328, EN 302 326-1, EN 302 326-2 ETSI EN 302 544-2
Safety	UL 60950-1 EN 60950-1 / IEC 60950-1
Operating Temperature	0° to 45° C (32°-113° F)
Humidity	5% to 95% non condensing

About Telrad

Telrad Networks is a global 4G solution provider with hundreds of commercial 4G deployments. Telrad delivers industry-leading network solutions for broadband wireless, LTE-Advanced and WiMAX to telecom operators, enterprises and WISPs worldwide. Telrad Networks is committed to delivering best-of-breed products, service and support to our customers, and is backed by Fortissimo Capital, a group of private equity funds with nearly \$500 million under management.



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For more information, please visit www.telrad.com