

WiBE® HS150 Extreme Series *Internet without wires*

Connect Better

The WiBE® HS150 Extreme Series of wireless gateways, enables plug and play mobile broadband in places other technologies cannot.

Utilising our patented multi-beam antenna system, WiBE® Pro automatically selects and maintains the 3G or 4G link offering the best possible user data rate. By focusing and then steering its antenna gain in the direction of the selected link, WiBE® Extreme extends 3G & 4G coverage beyond your recognised coverage area and improves user data rates.

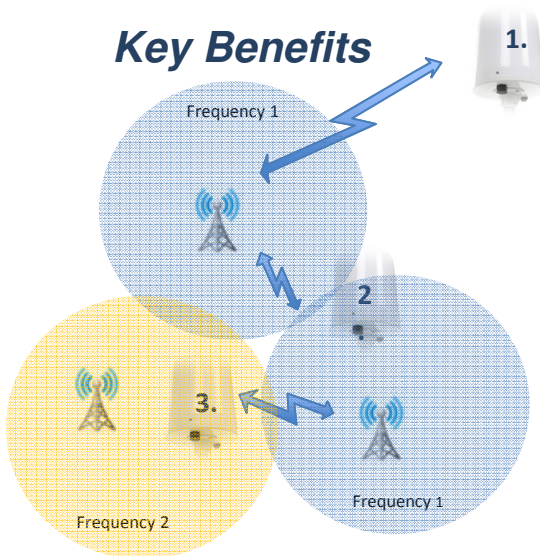
The WiBE® Extreme Series wireless gateway provides WiFi coverage to a home or business, connecting WiFi enabled devices to the internet, with download speeds up to 100Mbps and an average of 15Mbps¹ in rural areas, whilst also being suitable for outdoor use. The ability to mount the WiBE® Extreme outside is particularly useful when you may require extra height to gain a connection or if you wish to create a WiFi hotspot, for example in a village location or large outdoor space. WiBE® Extreme has an extremely low power consumption, and can if required be powered by a solar panel in locations where wired power is not practical or available.



¹ Subject to available 3G or 4G network

² The antenna has a front to back ratio of 20dB.

Key Benefits



1. WiBE® Extreme works outside your recognised 3G or 4G coverage area.

Using our plug and play patented multi-beam antenna technology along with the ability to mount the unit outside and in an elevated position, WiBE® Pro can extend the effective cell radius, by up to 10 times.

2. WiBE® Extreme significantly improves data rates at the cell edge.

Using our patented multi-beam antenna technology, WiBE® rejects interfering signals from other 3G or 4G base stations, improving the signal to noise ratio at the receiver by up to 100 times².

3. WiBE® Extreme enhances user data rates.

Using our patented multi-beam antenna technology, WiBE® seeks out and locks onto the 3G or 4G base station with the best available data throughput / least contention regardless of signal strength. This can improve the typical data throughput

WiBE™ HS150 Series

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3G/4G Antenna:

Frequency range	1710 – 2170MHz
Polarization	Linear (vertical)
Number of beams	4
Horizontal 3dB beamwidth	90° (±5°) per beam
Vertical 3dB beamwidth	60° (±5°) per beam
Isolation	> 25dB
Front-to-back ratio	> 20dB

3G/4G data link:

Technical standard	LTE/HSPA/UMTS	3GPP
Operating frequency	LTE/HSPA/UMTS	B3, B1
Maximum downlink transmission rates ²	HSDPA	42Mbps
	HSUPA	11.5Mbps
	LTE (download)	150Mbps
	LTE (upload)	50Mbps
Security	EAP-SIM support	
Power class	3 (+24 dBm)	
SIM	Full size	

Wireless LAN:

RF Specification	2.4 GHz IEEE 802.11bgn
Security	WPA/WPA2
	64/128-bit WEP encryption
	MAC address I/P Filtering
QoS	WiFi multimedia (WMM)
	Priority queue
	Bandwidth allocation
Region selection	via WEB Interface

Router:

LAN	DHCP server Static routing table Statically assigned IP addresses UPnP Universal Plug and Play VPN passthrough
SNMP	V3
Firewall	NAT/NAPT SPI (Stateful Packet Inspection) MAC/IP port filtering Port forwarding Virtual server mapping IP address mapping Port forwarding DDNS (Dynamic DNS) DMZ (De-militarized Zone)

Control interface:

Configuration	Web-based (HTTP) Via Ethernet port or WiFi Automatic APN selection by SIM network detection
Upgrade	User-initiated router upgrade
Monitoring	SNMP

Power supply:

Input voltage	8V-18V DC, 12V nominal
Power consumption	< 5W
Connectivity	SM cable with bare ends for Ethernet and power

Mechanical and environmental:

Power	12V DC Nom via wire ends
Data connectors	Ethernet (x1)
Connector positions	Base of unit
Mounting	1" pole mounting collar
Size (width x height x depth)	220mm (H) without collar 230mm (H) with collar x 155 mm (Dia)
Weight	900g
Operating temperature range	-10°C to +45°C (with solar loading up to 1120W/m ²) (Allows unit to be located in direct sunlight)
Ingress protection	IP65

All specifications are subject to change without notice. Please contact Deltenna for more detailed information.