

# OSBRIDGE

## OSBRIDGE 5GXt-HP-N Datasheet



<b>Interface</b>									
Ethernet Interface	100 Base-T Ethernet (RJ-45) with POE								
Wired LAN Protocol	IEEE 802.3 (CSMA/CD)								
Wireless Interface	OFDM, TDD								
Wireless LAN Protocol	IEEE 802.11a, Atheros 802.11a Turbo								
<b>Radio</b>									
Modulation Technique	BPSK, QPSK, 16QAM, 64QAM								
Supported Frequencies	Europe (ETSI): 5500-5700 MHz (11 channels) with DFS (Dynamic Frequency Selection) USA (FCC): 5745-5825 MHz (5 channels) UK (OFCOM FWA): 5735-5835 MHz (4 channels) with DFS (Dynamic Frequency Selection) Africa&Asia (OTHER): 4920-6100 MHz (236 channels, 5MHz step)								
Channel Width	User Selectable – 802.11a: 20 MHz, 10 MHz or 5 MHz, 802.11a Turbo: 40 MHz								
Bit Error Rate (BER)	Better than $10^{-5}$								
Output Power	≤ 25 dBm at each of the N-Female connectors								
Transmit Power	User Selectable: Default, Half (-3 dBm), Quarter (-6 dBm), Eight (-9 dBm)								
Bit Data Rate	54 Mbps	48 Mbps	36 Mbps	24 Mbps	18 Mbps	12 Mbps	9 Mbps	6 Mbps	
Receive Threshold	-72 dBm	-75 dBm	-80 dBm	-83 dBm	-87 dBm	-88 dBm	-89 dBm	-91 dBm	
<b>System</b>									
Processor	Intel XScale IXP425 533 MHz Network Processor								
Memory	64 MB RAM, 4 MB Flash								
RF Modules	Two Atheros AR5006XS with XR Technology								
<b>Software</b>									
Management	WEB Interface, SNMPv2								
Security	Association Protocol – ESSID/BSSID, WEP 40/128, TKIP, AES								
<b>Physical</b>									
Dimensions	280 mm X 180 mm X 60 mm								
Operating / Storage Temperature	-40°C - +70°C / -40°C - +85°C								
Enclosure	AL IP65 Rated, Outdoor Mountable, Weather Protected								
Power Adapter	48V/0.4A DC, 802.3af Active Ethernet (Power over Ethernet injector included)								
LEDs	2 – Power, Ethernet LAN Activity								
Mounting	Adjustable 100 mm Pole Mounting								
<b>Antenna</b>									
	N-Female connectors for two external antennas, 50 Ω								
<b>Operational Distance</b>									
Bit Data Rate (Mbps)	54	48	36	24	18	12	9	6	
Distance (meters, assuming 28dBi antennas) <sup>1)</sup>	12800	17100	23200	28800	36320	44800	64000	78400	
<b>Regulatory Compliance</b>									
	CE mark, ETSI EN 301 893, FCC Part 15 Compliant								
<b>Warranty</b>									
	One year, Limited								

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<sup>1)</sup> Distance may vary depending on several factors including, but not limited to, interference, obstacles and fresnel zone clearance.

<sup>2)</sup> Actual throughput may vary depending on several factors including, but not limited to, signal strength, interference, obstacles and fresnel zone clearance.