OSBRiDGE

OSBRiDGE 24XLG/24XLGi Technical Specifications
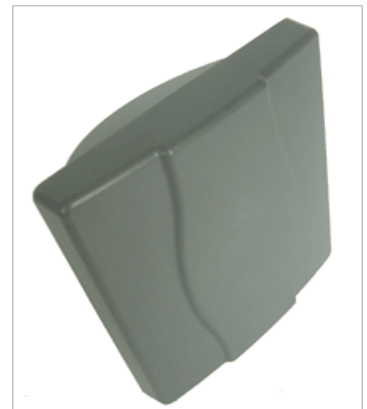
Interface

Ethernet Interface		100 base-T Ethernet (RJ-45) with POE
Wired LAN Protocol		IEEE 802.3 (CSMA/CD)
Wireless Interface		
	OSBRiDGE 24XLGi	Integrated 10dBi Panel Antenna, V or H Polarized
	OSBRiDGE 24XLG	N Female Connector
Wireless LAN Protocol		IEEE 802.11b/g, WPM (Wireless Polling MAC)

Radio

Supported Frequencies (User Configurable)	Europe (ETSI): 13 Channels (2412-2472 MHz)
	USA (FCC): 11 Channels (2412-2462 MHz)
	Africa&Asia (OTHER): 38 Channels (2312-2502 MHz, 5 MHz step)
Modulation Technique	BPSK, QPSK, 16QAM, 64QAM
Channel Width	User Selectable – 20 MHz, 10 MHz or 5 MHz
Media Access Protocol	CMSA/CA (Collision Avoidance) with ACK

Output Power	ETSI						FCC					
OSBRiDGE 24XLGi	$\leq+20$ dBm EIRP						$\leq+26$ dBm EIRP					
OSBRiDGE 24XLG	$\leq+12$ dBm at N connector						$\leq+18$ dBm at N connector					
Data Rate (Mbps)	54	48	36	24	18	12	11	9	6	5.5	2	1
Typical Receive Threshold												
OSBRiDGE 24XLGi (dBm) (including integrated antenna)	-83	-84	-86	-88	-91	-93	-96	-95	-101	-102	-103	-106
OSBRiDGE 24XLG (dBm)	-72	-73	-75	-77	-80	-82	-85	-84	-90	-91	-92	-97

System

Processor	Atheros AR2316 MIPS
Memory	4MB FLASH, 16MB SDRAM
RF Module	AR2316

Physical

Dimensions	140 mm X 195 mm X 70 mm
Operating / Storage Temperature	-40°C - +60°C / -40°C - +75°C
Enclosure	Outdoor Mountable, Weather Protected
Power Adapter	Included 12V/1.2A DC, Active Ethernet (Power over Ethernet injector included)
LEDs	3 – Power, Ethernet LAN Activity, Wireless Activity

Dedicated External Antennas

Model		Type	
	OSBRiDGE 24XLG	- **AS-11**	11 dBi 120° Horizontaly Polarized Sector Antenna
		- **AS-9**	9.5 dBi 180° Verticaly Polarized Sector Antenna
		- **AD-1**	11 dBi 360° Horizontaly Polarized Omni Antenna

Software

Key Features	
- Wireless Operating Modes: Access Point, Access Point Client, Polling Base/Client	- MAC address filtering
- IP Operating Modes: Bridge, Router, NAT Router	- Inter-Client traffic disable
- Independent Uplink/Downlink Traffic Shaping based on MAC address, IP address or whole IP Subnet	- Hardware Watchdog to ensure uninterrupted operation
- Built in powerful firewall that allows filtering traffic based on MAC address, IP address, Port or Protocol	- DHCP Client and Server
- Link Quality reporting	- User selectable Fragmentation / RTS threshold
- Built in PPPoE client	- Extensive link statistics

Regulatory Compliance

	OSBRiDGE 24XLGi	CE mark, ETSI EN 300 328 compliant, FCC Part 15 Compliant
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Warranty

	One year, limited