



Product description

Our Dual-Band Repeater provides a reliable high-power wireless network backbone throughout large buildings. Used in pairs, they create an 868MHz bridge between two 434MHz networks to extend wireless range up-to 3km line-of-sight.

Works with a WEMS BACnet® Gateway.

Features

- Dual band operation, 434MHz and 868MHz
- 434MHz – 10mW RF output power
- 868MHz – 500mW RF output power
- High performance wireless narrow-band operation
- License-free use (ISM bands)
- DIN rail mount
- Status LEDs
- Signal test button

Specification

Temperature & Humidity

Operating Temperature Range	-10 to +50°C
Operating Humidity	< 75% RH (Non-condensing)
Storage Temperature	-20 to +85 °C
Storage Humidity	< 90% RH (Non-condensing)
Cooling	Convection

Power

Supply Voltage	9-40Vdc
Current Consumption	350mA@12V (4.2W) max
Switch On Inrush Current	600mA@12V

434MHz Wireless

RF Frequency	433.05-434.79MHz
RF Output	8dBm
RF Sensitivity	-115dBm
RF Bandwidth	25kHz
RF Channels	69

868MHz Wireless

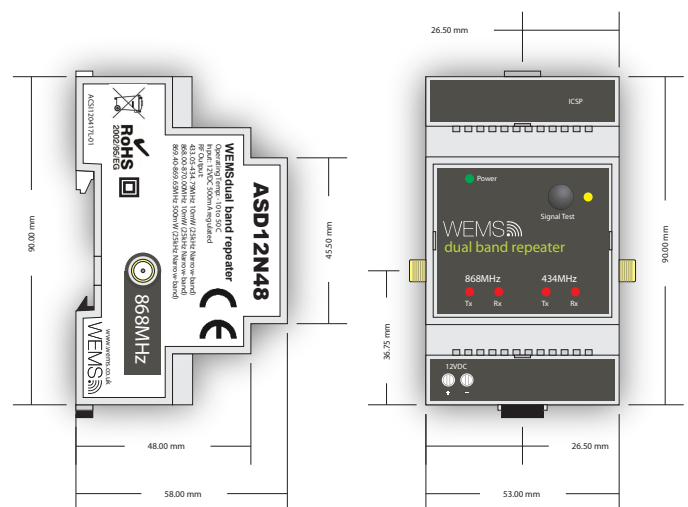
RF Frequency	868-870MHz
RF Output	10mW (10dBm) max
HP RF Frequency	869.400 - 869.650MHz
HP RF Output	500mW (26dBm) max
RF Sensitivity	-108dBm
RF Bandwidth	25kHz
RF Channels	80

Antennas

Antenna Connectors	Female 50Ω SMA (SubMiniature version A)
Antennas	1/4 wave

Weight, Dimensions & Mounting

Weight	110g (without antenna)
Width	53mm
Height	90mm
Depth	58mm
Enclosure	UL94-VO flame retardant PC, IP20 rated
Mounting	35mm DIN rail (EN 50022, BS 5584, DIN 46277-3) or direct surface mount. Optional adaptor for G rail mounting



Compliances

EMC

EN 301489-1: 2008
EN 55022: 2006
EN 61000-4-3: 2006
EN 61000-4-2: 2001
EN 61000-4-4: 2004
EN 61000-4-5: 2006
EN 61000-4-6: 2005
EN 61000-4-11: 2004
EN 61000-3-3: 1995

Wireless

EU R&TTE directive for 25KHz
EN 300 220 EMC standard for short range devices
EN 301 489 EMC standard for radio equipment and services

Safety

EN 60950: Information technology equipment
EN 60730: Automatic electrical controls
EN 50366: Domestic equipment

Product Codes

Dual-Band Repeater

ASD012N48