

# Patriot-DB

## Outdoor Dual Band 11ac WiFi Client-AP-Repeater



### PRODUCT DESCRIPTION

The Solwise Patriot Dual Band can be used as a general-purpose outdoor access point and includes a range of additional modes enabling it to function as a high performance WiFi client device. These capabilities allow the Patriot-DB to receive weak WiFi signals in caravan/lodge parks, campsites, marinas, and similar spaces where public wireless services are made available.

The Patriot-DB has the capability to relay WiFi by simultaneously receiving a signal on the 2.4GHz band and broadcasting on the 5GHz band, or even vice-versa, effectively boosting the connectivity and speed on handheld client devices like smartphones and tablets from otherwise weak WiFi networks. We would, however, advise caution using the repeater functions in public spaces due to interference and bandwidth restriction issues.

Where the outer walls of a lodge, vehicle, or vessel may prove restrictive for wireless signals, the Patriot-DB could be mounted to the exterior to establish a connection to the site's WiFi network and connected to a suitable indoor access point/router to provide a private service within your boat/van/lodge.

### FEATURES

- IEEE 802.11 ac/a/b/g/n standards
- WiFi speeds up to 2.4Ghz 150Mbps and 5Ghz 433Mbps\*
- Weatherproof RJ45 connector with integrated passive Power over Ethernet (PoE)
- Passive PoE support for flexible deployment
- Provides high performance over long range links
- Up to 1000mW\*\*\* of transmit power and enhanced receive sensitivity
- Robust weatherproof case – IP Rating 65
- Operations modes; Router, AP, Repeater and WISP (Client Router)
- High security with 802.11X, WAP, and WPA2
- 3 LEDs display signal strength
- Built in lightning protection (15kV ESD)

## PATRIOT-DB

### Specifications

#### Hardware

Ports	1 x WAN / LAN (10/100 BaseT)
Button	1 x Reset 8s
LEDs	Power, WAN / LAN, Wi-Fi, 3 x Signal strength
Chipset	MT7688A+7610E
Flash	Flash 64Mb
DDR2	512Mb
Power Supply	DC24V / 0.5A Power over Ethernet (Passive PoE) (Mains power adapter included.)
Power Consumption	7W max
Mains Adapter	Input: 100-240 Vac. 50 / 60hz

#### Dimensions

Dimensions	Unit only: 18cm x 5cm x 5cm Antennas: 25cm
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#### Environmental

Operating Temperature	30°C to 70°C (-22 to 158°F)
Storage Temperature	40°C to 70°C (40 to 158°F)
Relative Humidity (Operational)	10% - 90% non-condensing
Relative Humidity (Storage)	10% - 90% non-condensing

#### Wireless

Standard	IEEE 802.11b/g/n/a/ac
Frequency Band(s)	2.4Ghz & 5Ghz
Transmit Power***	30dBm max
Sensitivity	802.11b: -93dBm / 802.11g: - 74dBm / 802.11n: - 68dBm
Protocols and speeds*	802.11ac: up to 433Mbps 802.11n: up to 150Mbps 802.11a: up to 54Mbps 802.11g: 54Mbps 802.11b: 11Mbps
Wireless Security	WPA-PSK / WPA2-PSK encryption
Antennas	2 x 7Dbi Detachable Omni Directional (RSMA Connectors)
Range**	Outdoor 500m / Indoor 150m (Typical)

#### Firmware

WAN Type	PPPoE / Dynamic IP / Static IP / WISP / Repeater
DHCP Settings	Server / Client
Function	Time Setting / DDNS / Static Router / DHCP Server / Wireless Setting
Operating Modes	AP, Client, Client Router, Repeater, Bridge

IP Rating 65

#### Notes:

\* Maximum Ethernet throughput is 100Mbps

\*\* Range will be dependent on the transmit power and receive sensitivity of the remote device.

\*\*\* Subject to local legal restrictions