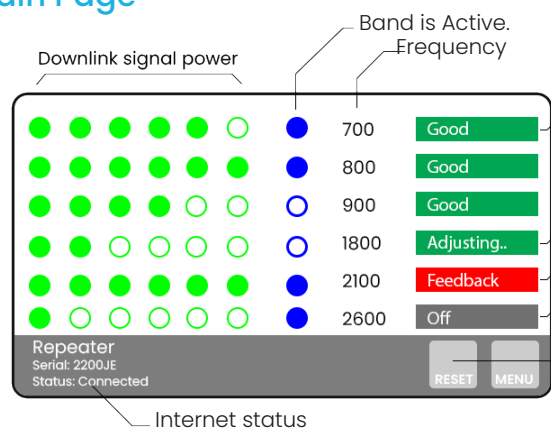


4 LCD Touch Panel

The LCD allows users to easily read the RouterAmp diagnostics, turn on/off any band, enable ByPass mode, and easily allows for general configuration.

Main Page



- No issues.
- Band is self optimizing.
- Indoor and outdoor antennas are too close to each other. Separate them more.
- Band is manually disabled.
- Long press to reboot: This is similar to plugging out and in mains power.

dB Page

Uplink (UL) power received by the amplifier. (Power emitted by the router)
 DL power from the operator, received by the amplifier.
 UL Automatic Gain Control (AGC) - starts when UL power limit is reached
 AGC for UL and DL when the operator's signal is strong.

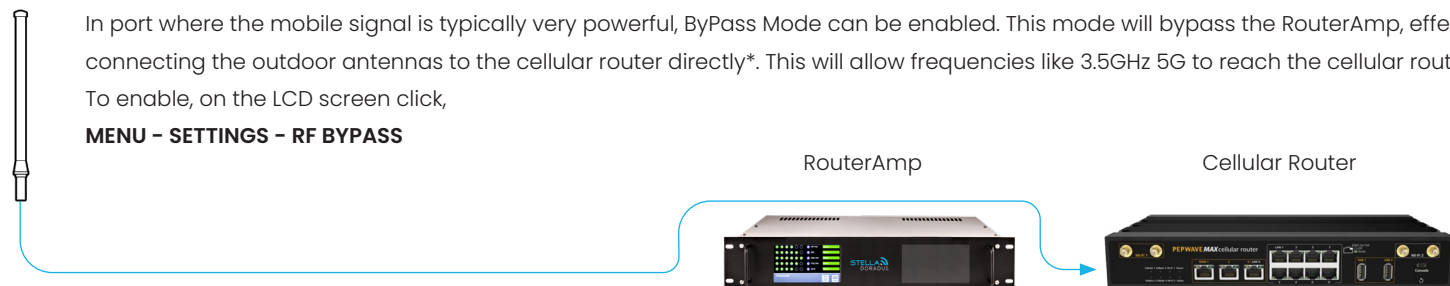
Frequency (MHz)	700	800	900	1800	2100	2600
UL Power (dBm)	2	2	2	2	2	2
DL Power (dBm)	4	4	4	4	4	4
UL Fast AGC (dB)	0	0	0	0	0	0
AGC (dB)	0	0	0	0	0	0

Blue box - band is active
 Yellow box - strong uplink from phone.

ByPass Mode

In port where the mobile signal is typically very powerful, ByPass Mode can be enabled. This mode will bypass the RouterAmp, effectively connecting the outdoor antennas to the cellular router directly*. This will allow frequencies like 3.5GHz 5G to reach the cellular router.

To enable, on the LCD screen click,
MENU - SETTINGS - RF BYPASS



*ByPass mode introduces 7dB loss to the channel. In practice this loss is easily overcome by the strong signal in port.

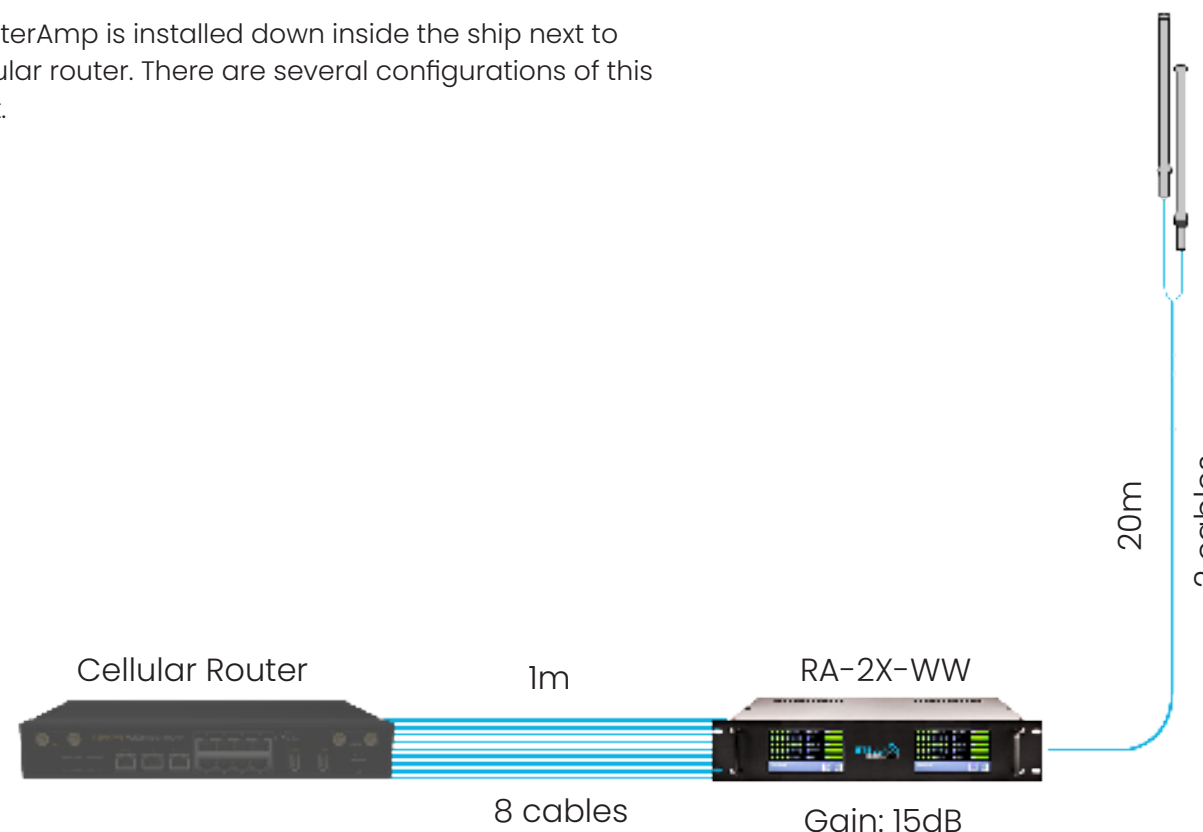
1 Quick installation and user manual



VISIT INSTALLER ZONE FOR MORE RESOURCES

Model: RouterAmp-WW
 Region: WorldWide

The RouterAmp is installed down inside the ship next to the cellular router. There are several configurations of this product.



This manual is for the following models

Models (SKU)	MIMO	Region	Rack	Mounting	Bands	Weight
RA-2X-WW-R	2X	WW	2U	Rack	B28/B20/B8/B3/B1/B7/B5/B4/B25	5kg
RA-4X-WW-R	4X	WW	4U	Rack	B28/B20/B8/B3/B1/B7/B5/B4/B25	10kg

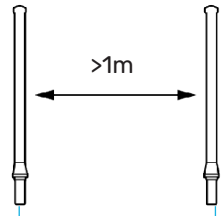
Other LCD features

- PIN Access** - A secret PIN can lock out access to the LCD display. The PIN is set on the clients account on stellacontrol. Default PIN 888888
- Region switching** - Go to MENU - Change Region

2 Step-by-step installation instructions

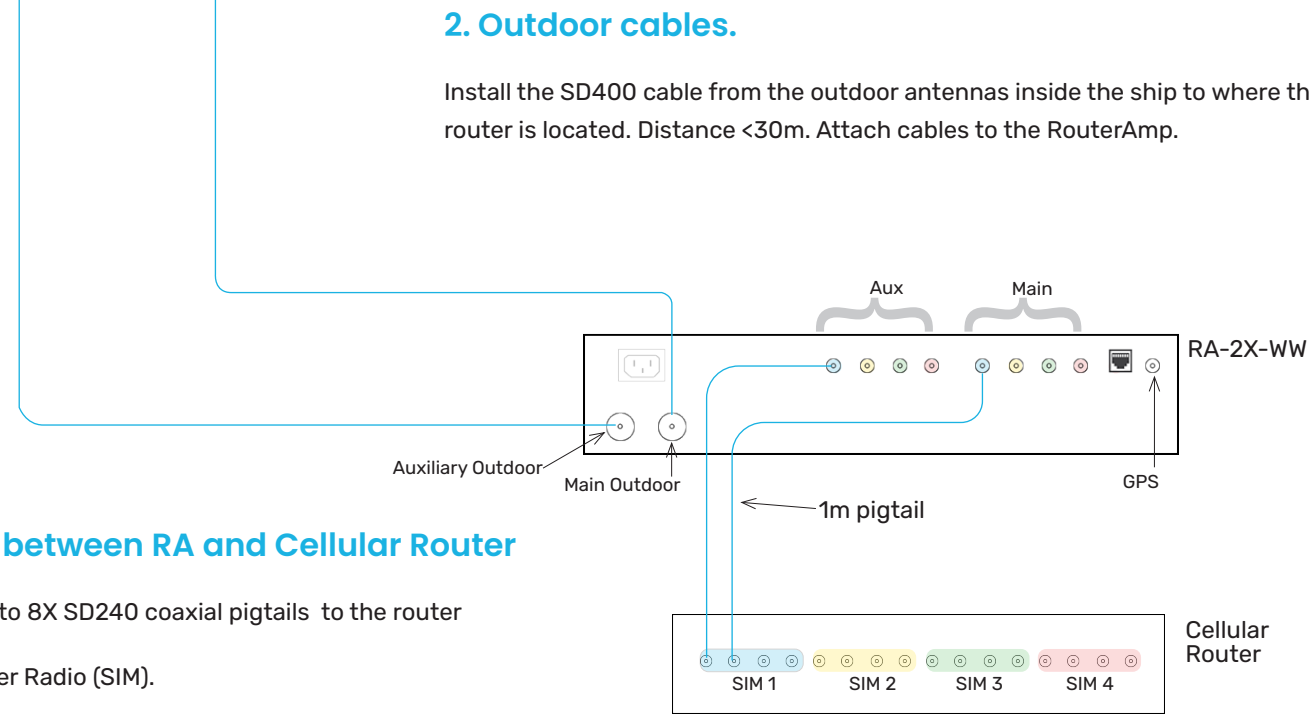
1. Install omni antennas.

Install 2 omni antennas up on the ship mast. If the antennas are installed horizontally keep them at least 1m apart. If they are installed vertically, they can be right up against each other



2. Outdoor cables.

Install the SD400 cable from the outdoor antennas inside the ship to where the router is located. Distance <30m. Attach cables to the RouterAmp.



3. Cable between RA and Cellular Router

Connect up to 8X SD240 coaxial pigtails to the router

- 2 pigtails per Radio (SIM).

4. Power on the RouterAmp and Router

The RouterAmp will now amplify the outdoor signal by 15dB. The signal powers per band can be seen on the LCD screen and on the Stella online platform, stellacontrol. There is no need for any further manual setup. This unit provides 2X DL MIMO.

5. StellaControl - Remote monitoring

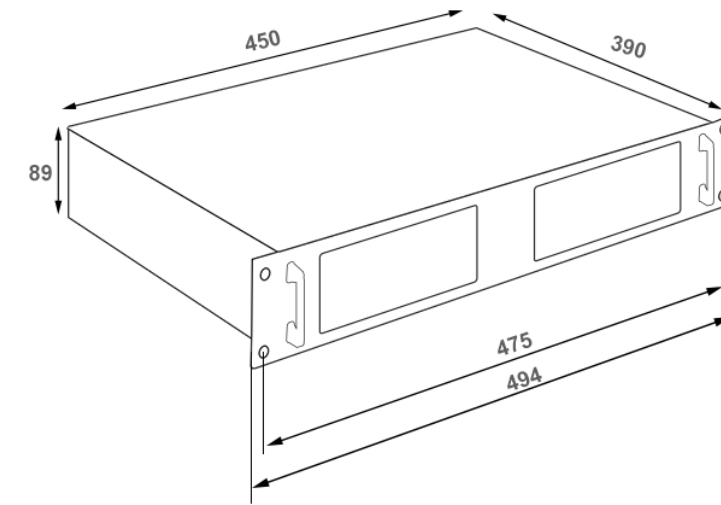
Connect the RouterAmp to a live ethernet connection. Log onto your stellacontrol account. Manage, monitor and control all your iRepeaters from the cloud.

With **ProMonitoring**, allow Stella to manage/monitor the RouterAmp and also benefit from 5 year warranty. 2+ years on top of our standard 3 year warranty.



TO LEARN MORE ABOUT REMOTE MONITORING USE THE QR CODE

3 Dimensions



Cable Assembly

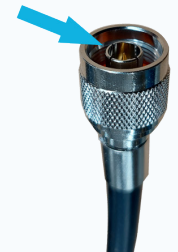
Self assembly of cables. Pay careful attention to the N-connectors.



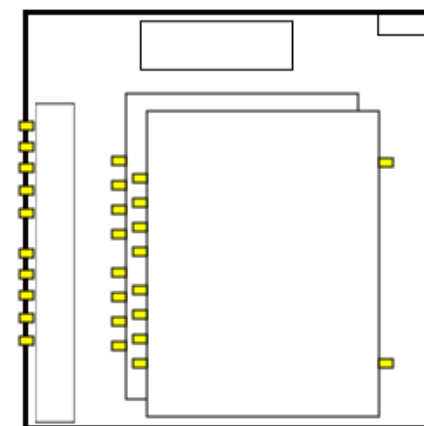
Braid must overlap with the collar of the connector. This is what holds the connector in place.



The silver braid must be long. Braiding must not touch centre pin. Check Carefully.



Centre pin must be level with the steel collar. Not pushed inside.



Dual Region

Two amplifier boards reside inside the 2U rack, one dedicated to the EMEA and the other to the Americas. Only one board is activated at any time depending on the region. Switching region can be done on the LCD screen and/or stellacontrol cloud platform.

When EMEA region is selected, the following bands are available.

B28/B20/B8/B3/B1/B7

When Americas region is selected, the following bands are available.

B28/B5/B4/B25/B7