

# G41 Repeater Subassembly for 24 Vdc Integrated Platforms with Winch-Up Masts

MPN: RFSA-G41-24-WU

## Description

This is a 4G repeater subassembly that can be installed in an Integrated Platform alongside a 24 Vdc Power System and Winch-Up Mast. The system uses a Cel-Fi G41 repeater, which is designed to be used while stationary. The Low-Band panel antenna provides a beam of coverage typically out to about 400 metres (input signal quality dependent).

It typically forms part of a BOM for a 4G Repeater Trailer or Skid. It contains all components necessary to "bolt-on" inside the electrical enclosure and onto the mast. This subassembly is designed for Winch-Up masts that have coaxial cables pre-installed inside the thermoformed harness.

This subassembly is designed for 24 Vdc power systems, and has a DC-DC converter to step the voltage back to 12 Vdc for the Cel-Fi repeater.

An Isolation Screen should ideally be installed to ensure maximum RF performance.



## Nextivity Cel-Fi GO G41-JE Cellular 4G-5G Stationary Repeater



Simultaneous Bands:	2	Relay Bandwidth:	40.00 MHz
Downlink Max. Gain:	100 dB	Uplink Max. Gain:	100 dB
Supported Technologies: 3G UMTS, 4G LTE, 5G NR			
Dimensions:	260 x 107 x 63 mm	Min. Operating Temperature:	0 °C
Weight:	2 kg	Max. Operating Temperature:	40 °C

## Powertec 4G Low Band H-Pol Panel Antenna, 698 to 960 MHz, 4.3-10 Female



Start Frequency:	698 MHz	Polarisation:	Horizontal (H)
Stop Frequency:	960 MHz	Input Impedance:	50
Max. Input Power: 100 W			
Subtype:	Panel / Sector	Dimensions:	500 x 280 x 125
MIMO:	1x1 SISO	Materials:	Polyvinyl Chloride (PVC)
Min. Operating Temperature:	-40 °C	Mounting:	Pole Clamp 30 to 52 mm
Max. Operating Temperature:	70 °C	Weight:	3 kg

## ZCG Low Band High Gain Yagi Antenna, 700 to 890 MHz, 15 dBi, 4.3-10 Female



Start Frequency:	698 MHz	Polarisation:	Linear
Stop Frequency:	890 MHz	Input Impedance:	50
Max. Input Power:	100 W		
Subtype:	Yagi	Dimensions:	1550 x 25 x 235
MIMO:	1x1 SISO	Materials:	Aluminium
Min. Operating Temperature:	-40 °C	Weight:	0.75 kg
Max. Operating Temperature:	85 °C		

## Subcomponents

Quantity	Subcomponent
1	Nextivity Cel-Fi GO G41-JE Cellular 4G-5G Stationary Repeater
1	Powertec 4G Low Band H-Pol Panel Antenna, 698 to 960 MHz, 4.3-10 Female
1	ZCG Low Band High Gain Yagi Antenna, 700 to 890 MHz, 15 dBi, 4.3-10 Female
1	
4	4.3-10 Male Connector for L-240 Coaxial Cable
1	PSF-402 Patch Cable 4.3-10 Male to SMA Male 1m
1	PSF-402 Patch cable 4.3-10 Male to SMA Male 50cm
1	Victron Orion-Tr 24/12-5 (60W) DC-DC Converter

Disclaimer: Although care has been taken to ensure the accuracy, completeness and reliability of the information provided, Powertec assumes no responsibility therefore. The user of the information agrees that the information is subject to change without notice. Powertec assumes no responsibility for the consequences of use of such information, nor for any infringement of third party intellectual property rights which may result from its use. IN NO EVENT SHALL POWERTEC BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL, OR INCIDENTAL DAMAGE RESULTING FROM, ARISING OUT OF OR IN CONNECTION WITH THE USE OF THE INFORMATION.

