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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.



Powertec

Powertec is a wireless technology manufacturer and systems integrator based in Australia. Operating since 1995, Powertec has grown to become the leading wireless technology distributor in its region, and a leading Infratech systems developer. Supporting over 1500 partners the company provides procurement, design, project management, and support services across Australia, New Zealand, Pacific ...

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



Simultaneous Bands
2
Downlink Max. Gain
100 dB
Supported Technologies
3G UMTS, 4G LTE, 5G NR
Relay Bandwidth
40.00 MHz
Uplink Max. Gain
100 dB
Dimensions
260 × 107 × 63 mm

Weight
2 kg
Min. Operating Temperature
0 °C
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
Stop Frequency
960 MHz
Max. Input Power
100 W
Polarisation
Horizontal (H)
Input Impedance
50 Ω
Subtype
Panel / Sector
MIMO
1x1 SISO
Min. Operating Temperature
-40 °C
Max. Operating Temperature
70 °C
Dimensions
500 x 280 x 125
Materials
Polyvinyl Chloride (PVC)
Mounting
Pole Clamp 30 to 52 mm ⌀

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



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

Quantity	Subcomponent
1	Nextivity Cel-Fi GO G41-JE Cellular 4G-5G Stationary Repeater

Quantity	Subcomponent
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

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