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Iridium® GPS Satellite Repeater Kit

Versatile Solution For Satellite Communications Indoors Transmits and Receives Iridium® Signals with Antennae



Iridium Satellite Repeater Kit Comprises:

Ix Coaxial Iridium Satellite Repeater

4 x GPS Iridium Antennae



BESPOKE LENGTH COAX CABLES.

We can supply bespoke length cables to your needs.







Iridium® repeaters are generally used in the following types of locations:-

- Aircraft Hangars
- Military Bunkers
- Underground Facilities
- Operation Rooms
- Ships / Submarines
- Oil Rigs
- Large Buildings
- Command Centres
- Tunnels
- Fire / Police Stations
- Coast Guard / Marine Rescue

Use with Iridium® Satellite Phones, and SBD (Short Burst Data) Devices.

Supports use of multiple handsets.

Up to 60m from external to internal Antennas.

Coverage upto 10m around internal Antennae.*

Adjustable UL & DL Gain upto 75dB. Supplied with either Internal Antennae or Radiating Coax.

Portable size at just 235x80x250mm, & 1.5kg.

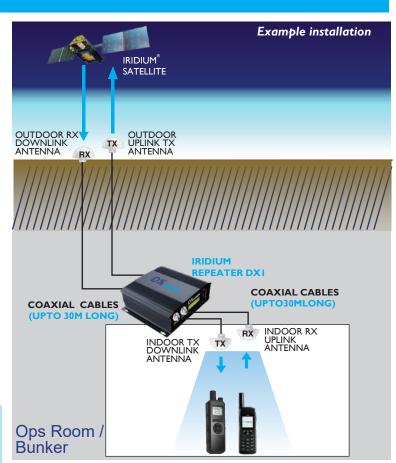
Optional Optical Fibre version coming soon.

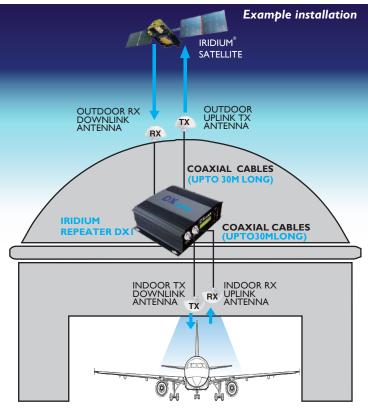
Covers GPS L1, Galileo, Glonass, GNSS-2 & Iridium

BESPOKE LENGTH COAX AVAILABLE

We can supply bespoke length cables. Eg: 2x10m with 2x20m OR 2x15m with 2x30m.

*Indoor antenna range depends on a number of factors, such as wall material and location, interference sources, room furnishings, antenna placement, and outdoor satellite signal strength





OPTIONAL: RF ABSORBING KITS AVAILABLE FOR USE WHEN INTERNAL ANTENNAS ARE IN CLOSE PROXIMITY (ask for details)







GPS L1, GLONASS, GNSS-2, GALILEO + Iridium band) 1615MHz – 1625MHz (Uplink, Iridium) Out-of-band attenuation Antenna impedance Finput/output surge protection RF Input/output surge su	GENERAL	
1615MHz – 1625MHz (Uplink, Iridium) Out-of-band attenuation Antenna impedance Finput/output surge protection Cecommend additional lighting protection Cecommend additional lighting protection Cecommend shutdown Cecommend s	Frequency range	
Antenna impedance Antenna imp		
Antenna impedance 50 \(\Omega \) (N-J connector) AF Input/output surge protection 2000 A, 8/20 \(\mu, \) 10 impulses Accommend additional lighting protection Gas discharge type Operating temperature range -30°C to +55°C Thermal shutdown 85°C (system internal temperature) Ower supply requirement 13.5V / 3A DC nominal (9V – 32V operating voltage) Fuse 2A, self-resetting/non-replaceable Furrent drain (approximate) 1.0A @ 13.5V Ower consumption 14W Dimensions of Repeater WHD 235x 80 x 250mm Weight of Repeater Uplies Fotal gain Uplink: 45-75dB (3dB increments) Working output power 1.91W (+32.8dBm) Astaced peak output power 449.5 dBm Asiaed peak output power 0.34dB Spurious emissions 0.00VNLINK Fotal gain Downlink: 25-55dB (3dB increments) Working output power 1.91W (+32.8dBm) Asiaed peak output power 449.5 dBm Asiaed peak output power 1.91W (+32.8dBm) Asiaed peak output power 4.49.5 dBm Asiaed peak output power 4.45.5 dBm		1615MHz – 1625MHz (Uplink, Iridium)
RF Input/output surge protection Recommend additional lighting protection Recommend additional lighting protection Recommend additional lighting protection Resource and Poperating temperature range Repeating temperature range Resource supply requirement supply requirement supply requirements Resource supply requirement Resource supply requirement supply requirements Resource supply requirement supply require	Out-of-band attenuation	37dB
Recommend additional lighting protection Operating temperature range Operating temperature range Operating temperature range Operating temperature range Operating shutdown Operating sh	Antenna impedance	50 Ω (N-J connector)
Operating temperature range Thermal shutdown Thermal shut	RF Input/output surge protection	2000 A, 8/20 μs, 10 impulses
Thermal shutdown 85°C (system internal temperature) Power supply requirement 13.5V / 3A DC nominal (9V – 32V operating voltage) 2A, self-resetting/non-replaceable 1.0A @ 13.5V Power consumption 14W Dimensions of Repeater WHD 235x 80 x 250mm Weight of Repeater 1.5 KG JPLINK Total gain Uplink: 45-75dB (3dB increments) Working output power 1.91W (+32.8dBm) Asted peak output power 449.5 dBm Voise figure 0.34dB Spurious emissions DOWNLINK Total gain Downlink: 25-55dB (3dB increments) Working output power 1.91W (+32.8dBm) 449.5 dBm Could gain Downlink: 25-55dB (3dB increments) Vorking output power 1.91W (+32.8dBm) 449.5 dBm Could gain Downlink: 25-45dBm Vorking output power 449.5 dBm	Recommend additional lighting protection	Gas discharge type
Power supply requirement 13.5V / 3A DC nominal (9V – 32V operating voltage) 2A, self-resetting/non-replaceable 2urrent drain (approximate) 1.0A @ 13.5V 2ower consumption 14W Dimensions of Repeater WHD 235x 80 x 250mm Weight of Repeater 1.5 KG JPLINK Total gain Uplink: 45-75dB (3dB increments) Working output power 1.91W (+32.8dBm) Rated peak output power 449.5 dBm Voise level <-145dBm/Hz Voise figure 0.34dB Spurious emissions DOWNLINK Total gain Downlink: 25-55dB (3dB increments) Working output power 1.91W (+32.8dBm) Acted peak output power 1.91W (+32.8dBm) Acted peak output power 1.91W (+32.8dBm) Acted peak output power 449.5 dBm Vorking output power 1.91W (+32.8dBm) Acted peak output power 449.5 dBm Voise level <-145dBm/Hz Voise figure 0.35dB Spurious emissions -95dBm	Operating temperature range	-30°C to +55°C
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Current drain (approximate) Power consumption 1.0A @ 13.5V 14W 235x 80 x 250mm Weight of Repeater 1.5 KG JPLINK Total gain Vorking output power Rated peak output power Voise level Voise figure Total gain DOWNLINK Total gain Downlink: 25-55dB (3dB increments) Power with the state of the	Power supply requirement	13.5V / 3A DC nominal (9V – 32V operating voltage)
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Noise level < -145dBm/Hz Noise figure	Working output power	1.91W (+32.8dBm)
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Spurious emissions -95dBm DOWNLINK Total gain Porking output power Rated peak output power Noise level Noise figure Downlink: 25-55dB (3dB increments) 1.91W (+32.8dBm) +49.5 dBm <-145dBm/Hz 0.35dB Spurious emissions -95dBm	Noise level	< -145dBm/Hz
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Rated peak output power +49.5 dBm Noise level <-145dBm/Hz Noise figure 0.35dB Spurious emissions -95dBm	Total gain	Downlink: 25-55dB (3dB increments)
Noise level < -145dBm/Hz Noise figure 0.35dB Spurious emissions -95dBm	Working output power	1.91W (+32.8dBm)
Noise figure 0.35dB Spurious emissions -95dBm	Rated peak output power	+49.5 dBm
Spurious emissions -95dBm	Noise level	< -145dBm/Hz
	Noise figure	0.35dB
Jplink/downlink isolation -84dB	Spurious emissions	-95dBm
	Uplink/downlink isolation	-84dB

Technical features

High gain, high efficiency GPS antennae
Thermal monitoring and safety shutdown
Integrated fuse and reverse polarity protection
Surge protection on inputs and outputs
Outputs protected against impedance mismatch/antenna disconnection
Extremely low-noise input stage
2W continuous output power