



Iridium® GPS Satellite Repeater

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



DX1

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Iridium® GPS Satellite Repeater Kit

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Iridium Satellite Repeater Kit Comprises:

- 1x Coaxial Iridium Satellite Repeater
- 4 x GPS Iridium Antennae
- 4 x 10m Coax Cables*
- 1 x Power Supply



BESPOKE LENGTH COAX CABLES.

We can supply bespoke length cables to your needs.



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*Up to 30m coax cables can be supplied if needed. Giving upto 60m range from external antennae.



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 up to 10m around internal Antennae.*

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

Portable size at just 235x80x250mm, & 1.5kg.

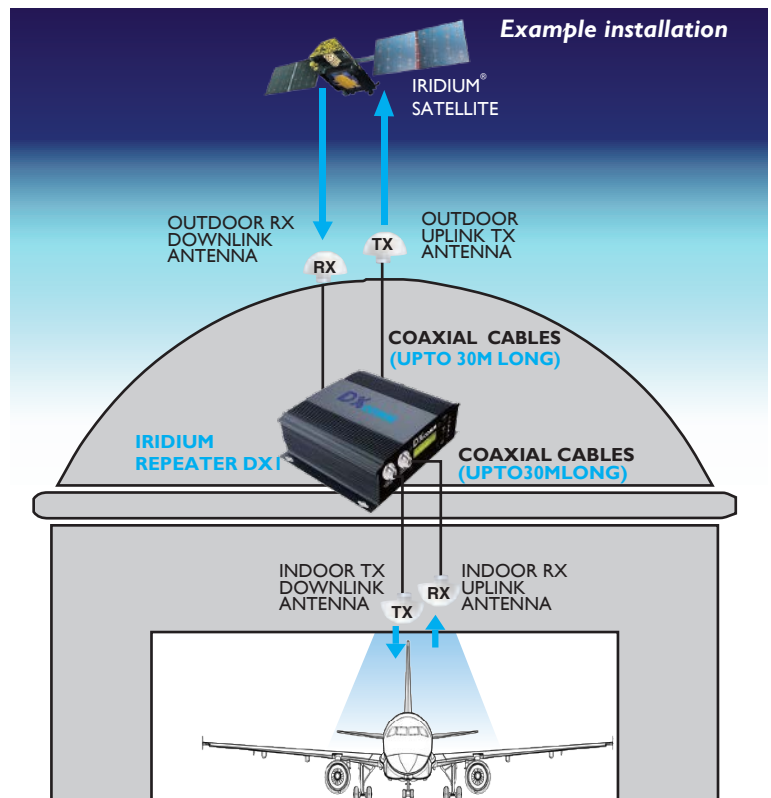
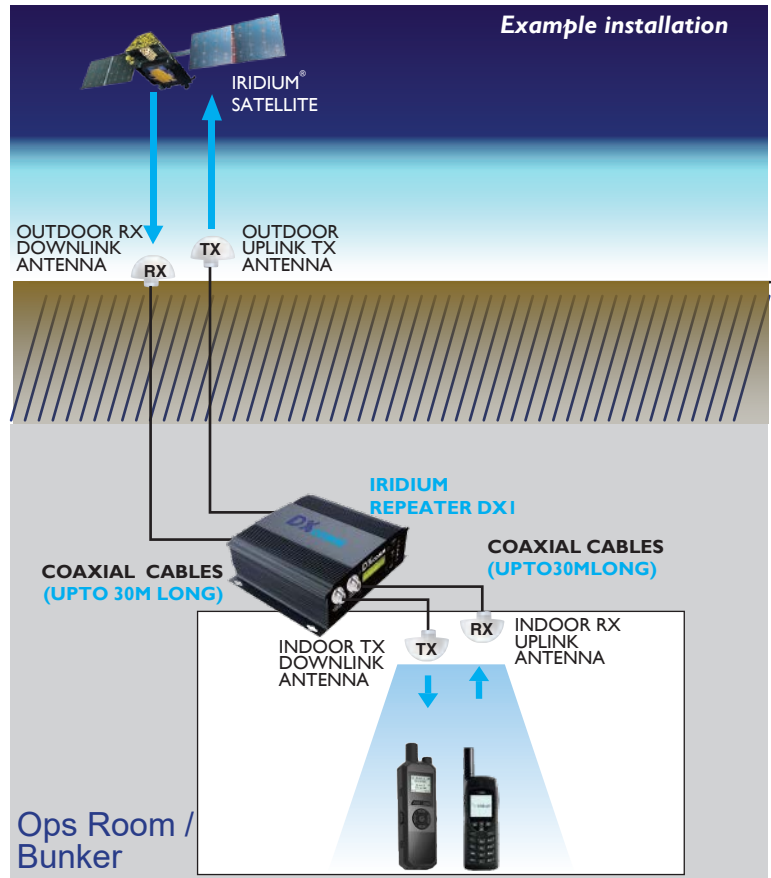
Optional Optical Fibre version coming soon.

Covers GPS LI, 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)



GENERAL

Frequency range	1575MHz – 1625MHz (Downlink, GPS L1, GLONASS, GNSS-2, GALILEO + Iridium band) 1615MHz – 1625MHz (Uplink, Iridium)
Out-of-band attenuation	37dB
Antenna impedance	50 Ω (N-J connector)
RF Input/output surge protection	2000 A, 8/20 μ s, 10 impulses
Recommend additional lightning protection	Gas discharge type
Operating temperature range	-30°C to +55°C
Thermal shutdown	85°C (system internal temperature)
Power supply requirement	13.5V / 3A DC nominal (9V – 32V operating voltage)
Fuse	2A, self-resetting/non-replaceable
Current drain (approximate)	1.0A @ 13.5V
Power consumption	14W
Dimensions of Repeater WHD	235x 80 x 250mm
Weight of Repeater	1.5 KG

UPLINK

Total gain	Uplink: 45-75dB (3dB increments)
Working output power	1.91W (+32.8dBm)
Rated peak output power	+49.5 dBm
Noise level	< -145dBm/Hz
Noise figure	0.34dB
Spurious emissions	-95dBm

DOWNLINK

Total gain	Downlink: 25-55dB (3dB increments)
Working output power	1.91W (+32.8dBm)
Rated peak output power	+49.5 dBm
Noise level	< -145dBm/Hz
Noise figure	0.35dB
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