



Thuraya Inmarsat GPS Satellite Repeater

Versatile Solution For Satellite Communications Indoors
Transmits and Receives Thuraya and Inmarsat
Signals with Antennae



OPTICAL FIBRE VERSION / COAXIAL VERSION



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Thuraya Inmarsat GPS Satellite Repeater Kit

Versatile Solution For Satellite Communications Indoors
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Thuraya and Inmarsat GPS Satellite Repeater Kit Comprises:

- 1 x Repeater Set (1 Set of 2 indoor units)
- 2 x Antennae
- 2 x 10m Coax Cables*
- 2 x Power Supply

OPTICAL KIT



BESPOKE LENGTH COAX CABLES.

We can supply bespoke length cables to your needs.

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





Thuraya and Inmarsat 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

Use with Thuraya and Inmarsat Satellite Phones, and SBD (Short Burst Data) Devices.

Supports use of multiple handsets. Use upto 2.5km from external to internal Antennas. Coverage up to 10m around internal Antennae.* Fibre between repeaters. Coax to each antenna.

Adjustable UL & DL Gain up to 75dB.

Portable size at just 235x80x250mm & 1.5kg.

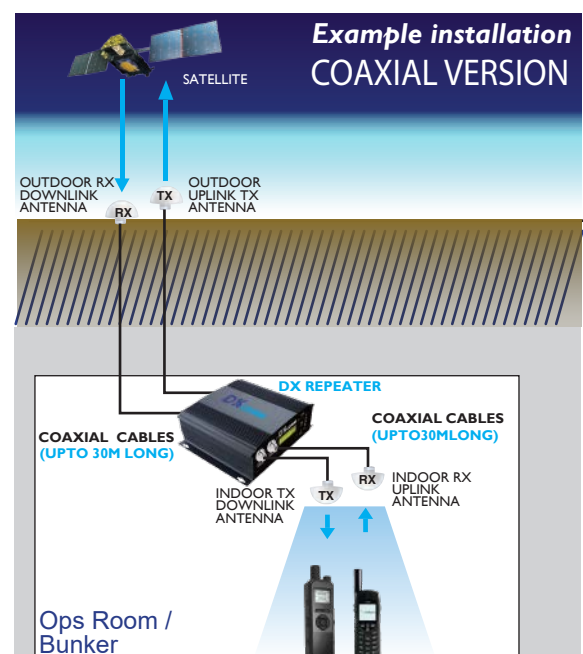
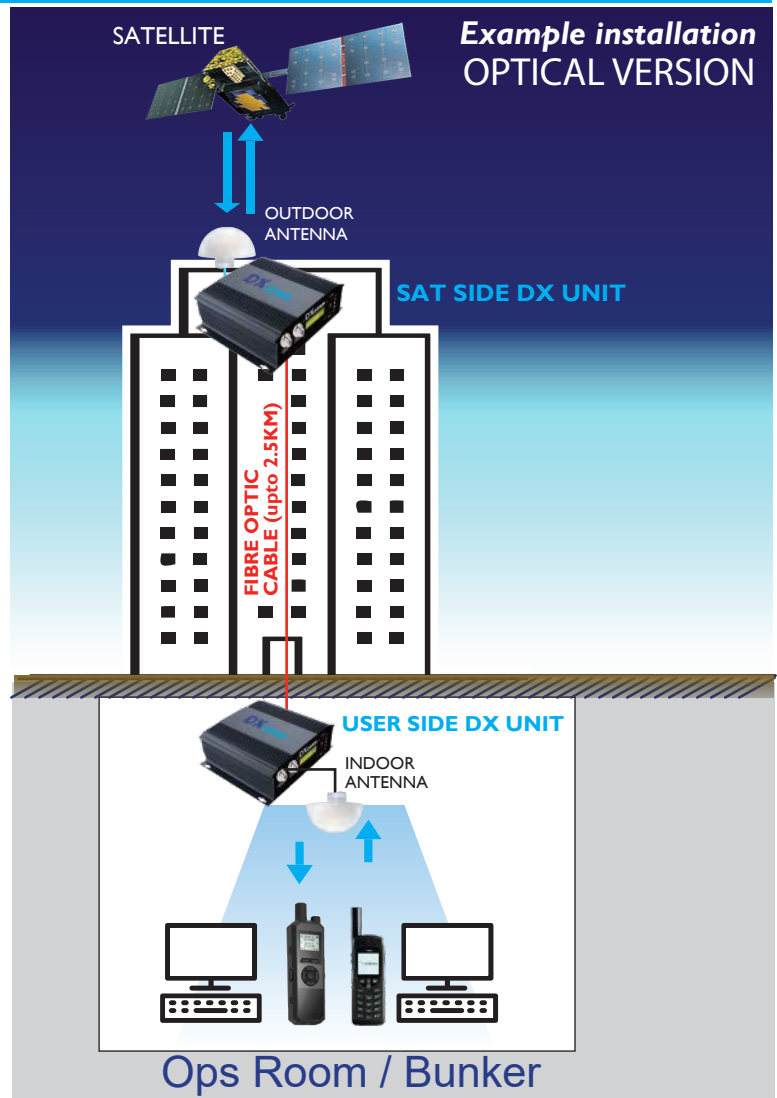
Optional Coaxial version.

GPS included as standard.

Covers GPS LI, Galileo, Thuraya and Inmarsat

BESPOKE LENGTH COAX AVAILABLE
We can supply bespoke length cables. Eg: 1x10m and a 20m OR 2x15m OR 2x30m for example.

**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*





GENERAL	
Frequency range	1525MHz – 1559MHz (Downlink, GPS L1, GALILEO, Thuraya, Inmarsat band) 1626.5MHz – 1660.5MHz (Uplink: Thuraya, Inmarsat band)
Out-of-band attenuation	37dB
Antenna impedance	50 Ω (N-J connector)
RF Input/output surge protection	2000 A, 8/20 μs, 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

