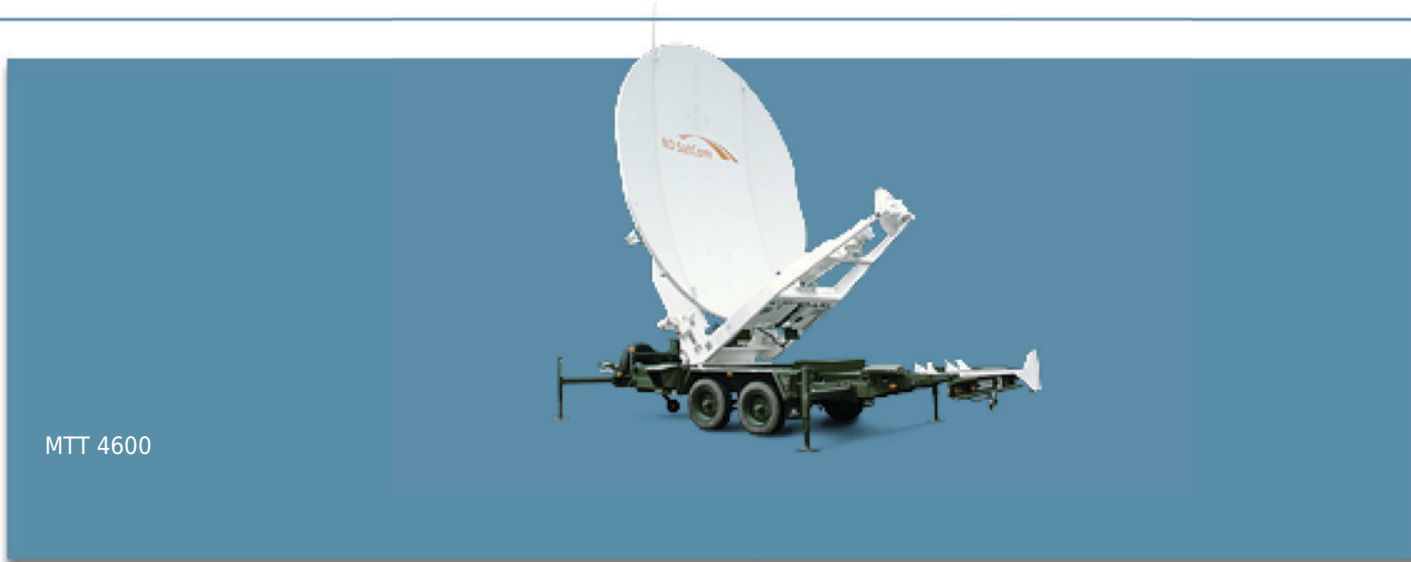


4.6M MULTI-BAND TRANSPORTABLE TERMINAL

MTT 4600

ND SATCOM



MTT 4600

High Capacity SatCom Solution for Military Missions.

Whenever in need of a robust satellite terminal for strategic applications, the MTT4600 is the terminal of choice!

The MTT 4600 system is available in C-, X-, Ku- and tri-band configuration. The 4.6m antenna, together with the RF equipment, is mounted on a trailer and automatically folds into a compact unit without any disassembling. It requires a towing capability of approximately 5 tons and is air transportable aboard C-130 and C-160 aircraft. The system is set up and ready for transmission in less than 60 minutes. With the MTT4600 you quickly deploy your network, wherever you need it. It covers a large variety of applications, and is ideally suited, e.g. as in-theater network hub.

Key Features

- / High performance antenna with rapid interchange between C-, X- and Ku-band feeds
- / Robust and rigid aluminium construction
- / Motorized antenna with automatic pointing and satellite tracking
- / DISA certifiable
- / Tri-band and single band TWTA and Frequency Converters available
- / Monitoring and Control system available
- / Trailer with pneumatic suspension and level control system
- / Compact stowage for air-freighting

Options

- / Low PIM feed (X-band)
- / Anti-icing system
- / Tx & Rx redundancy
- / Customized modem- & baseband configuration
- / Alternative HPA configuration
- / Test & measuring equipment/ Low PIM (X-band)

// Boost your in-theater satcom capability, wherever you need it //

Performance Specifications

PHYSICAL SPECIFICATION

Dimensions (L X W x H)	8.20 m x 2.36 m x 2.52 m
Weight	4,720 kg

ANTENNA SPECIFICATION

Antenna Diameter	4.6 m
Elevation Range	5° - 90°
Elevation Travel Rate	< 0.03°/s fine, < 0.4°/s coarse
Azimuth Range	200°
Azimuth Travel Rate	< 0.03°/s fine, < 0.4°/s coarse
Feed	Multi-band interchangeable

ENVIRONMENTAL SPECIFICATION

Operational Wind Speed	> 50 km/h (with high wind load option 72 km/h, gusting to 100 km/h)
Survival Wind Speed (stowed)	180 km/h
Temperature Range	-32°C to +50°C
Storage Ambient Temperature	-50°C to +70°C
Rain	Up to 1.8 mm/min
Humidity	Up to 100%, condensing
Solar Radiation	1,120 W/m2
Snow	Up to 50 kg/m2

RF Specifications

Tx Frequency Range	C-BAND, 4 PORT CIRCULAR 5.85 - 6.425 GHz X-BAND, 2 PORT CIRCULAR 7.90 - 8.40 GHz KU-BAND, 4 PORT LINEAR 13.00 - 13.25 GHz 13.75 - 14.50 GHz
Rx Frequency Range	C-BAND, 4 PORT CIRCULAR 3.625 - 4.20 GHz X-BAND, 2 PORT CIRCULAR 7.25 - 7.75 GHz KU-BAND, 4 PORT LINEAR 10.95 - 12.75 GHz
Tx Antenna Gain	C-BAND, 4 PORT CIRCULAR 48.4 dBi @ 6.425 GHz X-BAND, 2 PORT CIRCULAR 50.1 dBi (RHCP) @ 8.15 GHz KU-BAND, 4 PORT LINEAR 54.3 dBi @ 14.5 GHz
Rx Antenna Gain	C-BAND, 4 PORT CIRCULAR 45.0 dBi @ 4.200 GHz X-BAND, 2 PORT CIRCULAR 49.7 dBi (LHCP) @ 7.5 GHz KU-BAND, 4 PORT LINEAR 53.5 dBi @ 12.75 GHz

Tx Power TWTA	C-BAND, 4 PORT CIRCULAR 320 W X-BAND, 2 PORT CIRCULAR 420 W KU-BAND, 4 PORT LINEAR 350 W
EIRP rated	C-BAND, 4 PORT CIRCULAR 70.2 dBW X-BAND, 2 PORT CIRCULAR 73.6 dBW KU-BAND, 4 PORT LINEAR 77.5 dBW
G/T	C-BAND, 4 PORT CIRCULAR 26.7 dB/K @ 4.200 GHz +20° EI. X-BAND, 2 PORT CIRCULAR 30.0 dB/K @ 7.75 GHz +20° EI. KU-BAND, 4 PORT LINEAR 30.7 dB/K @ 12.75 GHz +20° EI.
Noise Temperature LNA	C-BAND, 4 PORT CIRCULAR 30 K X-BAND, 2 PORT CIRCULAR 55 K KU-BAND, 4 PORT LINEAR 70 K