



INSTALLING
RELIABILITY



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MANPACK TERMINAL

MANPACK TERMINAL WITH INTEGRATED SKYWAN 5G MODEM

The MPT terminal family targets operations of first responders, military and emergency response teams needing high throughput mobile nodes to build ad-hoc networks. The MPT terminal family is a mobile communications terminal with integrated SKYWAN 5G modem, which provides point-to-point or any-to-any communication in a hubless infrastructure.

VMware ESXi server is preinstalled at the powerful processing core to host customer specific software. It supports customer applications beyond just basic connectivity and brings applications such as IP acceleration appliances, firewalls and an Evolved Packet Core (EPC) of a mobile LTE cell to the edge of the network, saving satellite capacity, while providing full flexibility.

The terminal gives the best user experience by deploying advanced acceleration techniques by traffic filtering or throughput optimization that works seamlessly with QoS given by the SKYWAN 5G satellite router.

The MPT terminal family installation is easily made in a few minutes aided by its inbuilt Pointing Assistant using the integrated sensor package with network validation of the used SKYWAN 5G MF-TDMA network.

The MPT terminal family caters for all bands (X, Ku, Ka) and dish sizes, ranging from 60 to 130cm.

CUSTOMER BENEFIT

- Quick and easy setup by one person
- Integrates SKYWAN 5G modem and optionally the EPC for LTE cells or traffic optimization
- No fan or cabling
- No tools required to setup the terminal
- Integrated pointing assistant with keypad and display
- Internal GPS/GLONASS/GALILEO sensor

KEY FEATURES

- Ku band support (Ka and X band on request)
- SKYWAN 5G modem with hardware-based AES-256 encryption and DVB-S2
- VM platform for applications support
- AC or DC power supply
- Compatible with batteries type BB-2590
- Optional battery charger available
- Customised systems available

TECHNICAL SPECIFICATION

MPT FAMILY			
Modules	Main Integration Unit (MIU), RF unit, reflector, power supply, battery charger		
Reflector Sizes	60, 80, 100, 120/130 [cm]		
Azimuth Range	± 120°		
Elevation Range	10° to 90°		
Temperature Range	Operating: -30°C to 60°C	Storage: -40°C to 70°C	
Operational Wind Speed	25 mph (40 km/h)		
Band	X	Ku	Ka ¹
Polarization	RCP/LCP	Linear	RCP/LCP
Transmission Frequency	Motorised polarisation adjustment		
Receive Frequency	7.90 to 8.40 GHz	13.75 to 14.50 GHz	30.0 to 31.0 GHz
Gain Tx/Rx	60 cm	32.7 / 32.0 dBi	37.0 / 35.5 dBi
	80 cm	35.1 / 34.6 dBi	39.5 / 38.1 dBi
	100 cm	37.0 / 36.4 dBi	41.2 / 40.0 dBi
BUC Power Options	5, 10, 15, 20W	12, 16, 20, 40W	10, 20W
Power Input	80 – 240 VAC, 12 to 36 VDC, BB-2590 battery		
System Weight	Less than 19 kg (100 cm reflector)		
LAN Interfaces	4 x GbE RJ45 or 3 x GbE RJ45 and 1 x GbE fibre optic		
Control Interface	Internal display and web based: basic control and monitoring of modem, BUC and ESXi server; optional equipment and satellite acquisition assistance.		

MAIN INTEGRATION UNIT (MIU)	
Modem	SKYWAN 5G MF-TDMA modem for hubless star / hybrid / mesh topologies, optional AES-256 hardware encryption module, DVB-S2 receiver card
Virtualisation Platform	Processor: Intel Series / RAM: up to 32GB / Storage: up to 250GB Available Applications: XipLINK, Sevis, openEPC, Firewalls, Encryption Engines
Single or doubled modems	In the standard option, the terminal is equipped with single modem and controller. It is possible to add an additional modem if required.
Virtual and physical routing and services	Tested using the following platforms: Cisco Embedded Services Routers 59XX series, Riverbed SteelHead, MikroTik Cloud Hosted Router, XipLINK
IP acceleration	Riverbed SteelHead, Cisco WAAS, XipLINK, Vocality, others
LTE / EPC	Quortus ECX Tactical
Interfaces for radio and phones, RoIP, VoIP	Cisco, Vocality

¹ under development



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