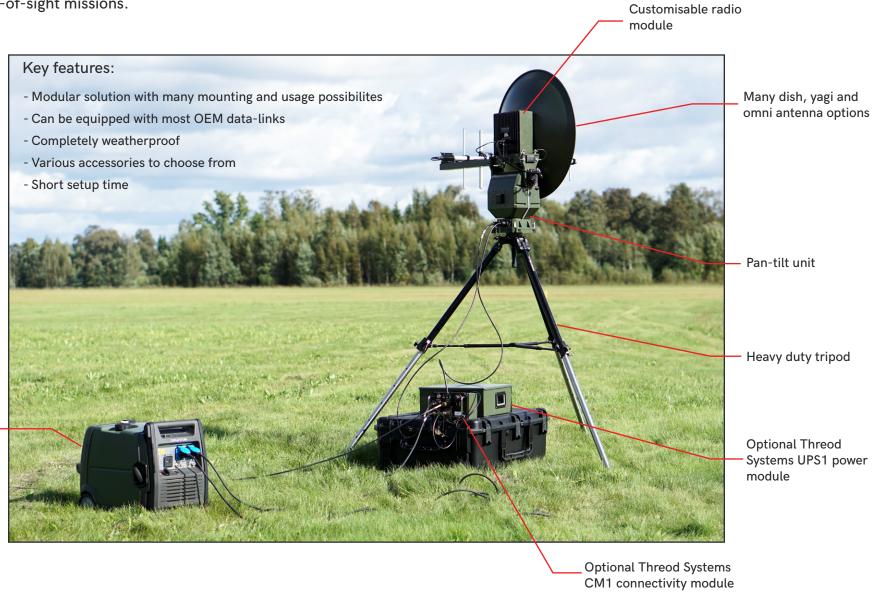
GDT100

Portable generator -



SYSTEMS

The GDT100 Ground Data Terminal is a reliable all weather system for long distance line-of-sight missions.



GDT100 Specifications



Note! GD I 100 range can be further enhanced by using various masts and boom-lift systems.
See GDT150 datasheet for reference. Contact Threod for options and quotations.

Radio module	
	Primary datalink
Frequency range	2200-2500MHz ¹
Max TX power	16W (42dBm)
Waveform	Mobile Networked MIMO (MN-MIMO)
Modulation	BPSK, QPSK, 16-QAM, 64-QAM
Channel Bandwidth	5/10/20 MHz
Encryption	AES256
Tuning step size	1 kHz
Data rates	100+ Mbps
No. of RF channels	2
Features	Spatial Multiplexing, Space-Time
	Coding, TX Eigen Beamforming, RX
	Eigen Beamforming
	Back-up datalink
Frequency range	403-473MHz ¹
Max TX power	1W (30dBm)
Modulation	4FSK, GMSK (half-duplex)
Channel bandwidth	12.5/25 kHz
Encryption	AES128
Tuning step size	6.25 kHz
Data rates	9600-19200 bps
No. of RF channels	1
Features	FEC, RSSI indication, half-duplex
1 catal co	operation (separate frequency for RX
	and TX), channel listing
	Interfaces
Physical interface	Amphenol 62IN series connector
Signaling interfaces	Ethernet
	RS232
Antennas	
Pı	rimary datalink antenna
Frequency range	1700-2700 MHz
Polarization	Dual, slant-polarized
Antenna gain	23dBi
Maximum input	40W
power	
Range	100km+ LOS
	ck-up datalink antenna
Frequency range	390-480MHz
Polarization	Vertical
Antenna gain	9dBi
Maximum input	100W
power	
Range	100km+ LOS
Tracking system	
Range of movement	Azimuth: 360°, continuously
(azimuth)	Elevation: -20° to +70°
(azıırlutli)	Lievation, 20 to +/0

Supply Voltage	24VDC	
Power Consumption	80W peak, 30W nominal	
Physical interface	Amphenol 62IN series connector	
Signaling interface	Ethernet	
UPS power module		
Input voltage	85-264VAC	
Output voltage	24VDC (regulated)	
Maximum output current	20A	
Buffer period	3h	
Physical interfaces	Weald LMV series connector (input) Amphenol 62In series connector (output)	
Camera module		
Resolution	1080p	
Zoom	18x optical	
Frame rate	30/25 fps	
Horizontal angle of view	59-4°	
Features	Autofocus, internal memory, configurable over network, automatically removable infrared- cut/pass filter (day and night mode), aligned with antenna direction	
Environmental		
Operating Temperature	-20 °C to +50 °C	
IP rating	IP65	
Standards		
Environmental	MIL-STD-810G	
Features	<u> </u>	
system (extended range	ed on a tripod (mobile) or a boom-lift ma (e)	
HD camera for visual tracking and tracker calibration		
Integrated GPS receiver for automatic antenna tracking		
API support for integrating with third party software		
Tracker system can include UPS		
Tracker can be interfa	ced with Thread CM1 connectivity modu	
for additional ethernel Rugged design for all		

Azimuth: 0.1°/sec to 20°/sec Elevation: 0.1°/sec to 10°/sec

Tripod, boom-lift

Angular velocity

Mounting options

(azimuth) Position accuracy

and quotations



GDT100 can be used with Threod Systems CM1 and UPS1 modules



GDT100 set

