

Ogier Electronics Mobile-T Man Pack

The equipment is the lower power version of the digital Mobile-T. It provides broadcast quality video in line of sight and non line of sight conditions. It can be configured for different applications. Here, the transmitter is configured as a man portable equipment and the receiver is configured for vehicle mounting. The specifications below apply to the 1.4 GHz band, but other frequencies can be used.

Video Channels	1 in one direction	
Frequency	Centre frequency	Selectable between 1,000 and 2,800 MHz
	Bandwidth	8 MHz per channel
Range	Line of Sight	3 km
	Non Line of Sight	Up to 300 metres
	Availability	99.95% all weathers
Transmitter	Power	17 dBm (50 mW)
	EIRP	19 dBm (80 mW)
	Modulation	OFDM with 2,000 QPSK modulated carriers
	Polarisation	Linear
	Frequency stability	30 ppm
Receiver	Space diversity	Automatic antenna selection
	Sensitivity	-90 dBm
	Bandwidth	8 MHz
Transmit Antenna	Type	Dipole
	Beamwidth	360 degrees azimuth, 60 degrees elevation
	Antenna Gain	2 dB
Receive Antenna - Option 1	Type	2 omni directional antennas
	Beamwidth	360 degrees azimuth, 20 degrees elevation
	Gain	6 dB
Receive Antenna - Option 2	Type	4 planar sector antennas
	Beamwidth	Each antenna 90 degrees azimuth and elevation
	Gain	6 dB
Video	Quality	DVB-T Digital Video Broadcast – Terrestrial
	Input / Output	25 Hz frame rate PAL or NTSC 1Volt 75 ohm
	Bandwidth	5.6 MHz
	Compression	MPEG2
Controls	Transmitter	On or Off / External Power and Channel Select
	Receiver	On or Off and Channel Select
Connectors	Transmit Antenna	SMA
	Transmitter	SMA to Antenna
		BNC for video
		Audio and Data (option)
		External mains power
	Receive Antenna	N Type
	Receiver	4 N Types to Receive Antennas
		BNC for video
		Audio and Data (option)
		2 pole for DC power
Prime Power	Transmitter	Rechargeable Lithium Ion battery pack providing 2 hours continuous running
	Receiver Voltage	9 to 18 Volts DC from the vehicle battery via a stabilised supply that we assume is fitted
	Receiver Current	1.4 Amps at 15 Volts DC
Sealing	Transmitter	IP65
	Receiver	IP20
	Antennas	IP66
Dimensions	Transmit Antenna	1 unit 150 mm x 10 mm dia
	Transmitter	200 x 90 x 60 mm including battery pack
	Receive Antenna	Option 1 2 units 300 mm x 10 mm dia
		Option 2 4 units 155 x 125 x 35 mm
	Receiver	1U 19 inch tray (483 x 310 x 44 mm)
Mass	Transmit Antenna	0.1 kg
	Transmitter	1.3 kg including battery pack
	Receive Antenna	Option 1 2.0 kg each
		Option 2 1.0 kg each
	Receiver	6.0 kg
Temperature Range	-20 to +50 C	
Life	15 Years	
Radiation Hazard	None	0.08 mW/square cm 10 cm from omni antenna
Routine maintenance	None required	