## Ogier Electronics Mobile-T Vehicle

The equipment is the high power version of the digital Mobile-T (the Mobile-T-HP). It provides broadcast quality video in line of sight and non line of sight conditions. Like the lower power version it can be configured for a number of different applications. Here, the transmitter is configured as a vehicle equipment and the receiver is configured for a static ground based configuration. The specifications below apply to the 1.4 GHz band, but other frequencies can be used.

| Video Channels | 1 in one direction |
|----------------|--------------------|
| _              | <b>^</b>           |

Centre frequency Selectable between 1,000 and 2,800 MHz Frequency

Bandwidth 8 MHz per channel

Range Line of Sight 30 km

> Non Line of Sight 3 km, up to 5 km Availability 99.95% all weathers

Transmitter Power 30 dBm (1 Watt) **EIRP** Up to 36 dBm (4 Watts)

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 Туре Dipole

Gain

360 degrees azimuth, 20/10 degrees elevation Beamwidth

Antenna Gain 2 dB or 6 dB

Receive Antenna Type 2 planar sector antennas

> Beamwidth Each antenna, 90 deg azimuth, 60 deg elev

Quality DVB-T Digital Video Broadcast - Terrestrial Video

Input / Output 25 Hz frame rate PAL or NTSC 1Volt 75 ohm

Bandwidth 5.6 MHz MPEG2 Compression Transmitter On / Off Receiver On / Off

Transmit Antenna Connectors N Type

Receive Antenna

Transmitter N Type to Transmit Antenna

BNC for video Audio and Data (option)

2 pole for DC power N Type to Receiver

2 N Types to Receive Antennas Receiver

BNC for video

Audio and Data (option) 2 pole for AC mains power

Prime Power 9 to 18 Volts DC from the vehicle battery via a Transmitter Voltage

stabilised supply which we assume is fitted

Transmitter Current 4 Amps at 15 Volts DC 200 to 240 Volts AC Receiver Voltage

Receiver Power 25 Watts Transmitter IP20 Receiver IP20 Antennas **IP66** 

**Dimensions** Transmit Antenna 300 x 20 mm

> (2U) 483 x 310 x 87 mm Transmitter Receive Antenna 2 units each 155 x 125 x 35 mm (1U) 483 x 250 x 44 mm

Receiver

Transmit Antenna 0.2 kg Transmitter 7.2 kg Receive Antenna 1.0 kg each Receiver 6.0 kg

-20 to +50 C Temperature Range

Life

Controls

Sealing

Mass

15 Years

Radiation Hazard None 0.004 mW/square cm 3 m from antenna Routine maintenance None required