

PRELIMINARY

Ogier Electronics Limited

OT550-HP-T Outdoor Mounted Digital Video COFDM Transmitter



Outdoor Transmitter with Sunshield

The Ogier OT550-HP-T COFDM transmitter is supplied in a rugged, environmentally sealed housing complete with integrated sunshield (pictured above). It transmits a COFDM modulated narrow bandwidth MPEG2 or MPEG4 encoded low latency video. Power is supplied from a 24V dc supply.

The OT550 operating band is between 1.2 to 1.4GHz where a number of preset channels are selected by internal switch. Telemetry data for camera PTZ control is received using an internal telemetry receiver. The transmitter is fitted with an internal power amplifier for improved NLOS operation.

The OT550 equipment is factory set to a robust operating mode. An optional RS232 configuration interface allows further configuration in the field.

Features

- Robust outdoor enclosure sealed to IP66
- COFDM Transmission in a 2.5MHz Narrow Bandwidth.
- Factory set frequencies for video transmission between 1.2 and 1.4GHz
- Low delay video operation for real time applications.
- Transmit power up to 0.5W for long range operation.
- Telemetry receiver for camera PTZ control. Various frequency bands available from 100 to 900MHz.
- Optional Internal AES 128 / 256bit encryption.
- Optional DVB compliant encoder including 4:2:2, BFrames and MPEG audio, and with 6/7/8MHz transmission DVB-T bandwidths.

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Specification

The specification below shows the factory set operating mode for maximum robustness. Alternative operating modes are available (16-QAM, 64-QAM, FEC settings, DVB-T operation, frequency settings etc) via the optional configuration interface.

Inputs	Composite Video (Kopex) Power (Kopex) Telemetry RF In (N-type female)
Outputs	Video RF Out (N-type female) Telemetry data (Kopex)
Transmit Modes	2.5MHz bandwidth Modulation QPSK (factory set)
RF Out Power:	Up to 0.5W with P.A
Transmit channel selection:	Factory preset channels selected by internal switch
Video Transmit Frequency Band:	1.2 to 1.4GHz
Telemetry Receive Frequency Band:	Several band options ranging from 100 to 900MHz, each with a number of preset operating frequencies.
Telemetry RX channel bandwidth:	Typically 25KHz
Telemetry RX bit-rate:	To 9600 bps
Telemetry RX interface:	RS422 or RS232 simplex
COFDM TX Encryption:	ABS Encryption 32bit factory set key AES128/256bit factory set key (option)
Video Encoding Input Format:	PAL
Video Encoding:	MPEG2 or MPEG4
Power Supply Voltage:	24Vdc
Power consumption:	to 35W (depending on output power)
Physical Dimensions:	285 x 240 x 150 (inc sunshield, exc connectors)
Cooling:	Convection
Operating temperature:	-10 to +50 deg C
Environmental sealing:	IP66

Optional features which can be specified with the OT550 would include a RS232 data channel, SVideo or SDI interfaces, DVB-T operating modes, RS232 control interface allowing full configuration, built in test functionality, cable glands instead of kopex. Two kopex glands are fitted as standard but IP rated connectors can be fitted as a further option.