

ADV27 is a very compact FM video and data transmitter/receiver at S band. Specially designed for size, weight and power constrained applications; the system enables real-time, high-quality video imagery and data. It can simultaneously transmit video captured by onboard payloads and data from sensors and other multiple sources.

Thanks to a very simple dedicated software interface, the transmitter **ADV27-T** and the receiver **ADV27-R** are easy to configure and to use.

APPLICATIONS

- Remote control, telemetry, data link
- Manned and unmanned vehicles, UAVs
- Point to Point and Point to Multipoint
- Ground to Air or Ground to Ground links
- Short or Medium range transmission; up to 50km LOS with 2W amplifier and 14 dBi Ground antenna



Transmitter
ADV27-T



Receiver
ADV27-R

FEATURES

- Wideband FM demodulation
- PLL synthesized
- DDS-generated data sub-carrier modulated in Manchester-coded FSK
- Raw data rate up to 48 kbps
- Multiplexing capabilities (up to 4 x RS232)
- User interface (config, channel, RSSI)

SPECIFICATIONS

RF characteristics

Frequency band :	2.40 – 2.50 GHz Others on request
Channels :	4 channels
Modulation :	Wideband FM
TX RF Output Power :	80 to 250 mw (4 dB steps)
RX dynamic range :	- 90 to - 30 dBm
RX sensitivity :	- 90 dBm for data (BER @ 1.1E-6) - 87 dBm for Video
RX return loss :	- 13 dB (RF port)
Connector :	SMA

Video interface

Connector :	SMA reverse
Video standard :	PAL CVBS

Power

Connector :	MDR-26F
Supply voltage :	12 to 32 VDC
Consumption TX @28V :	3 w "ON" 0.8 w "OFF"

Operating temperature - 40°C to 70°C

Data I/O

Connector :	MDR-26F
Raw data rate :	Up to 200 kbps
Protocol :	RS232 up to 160 Kbps

Mechanical

Dimensions :	93 x 73 x 22 mm
Weight :	160 gr

