

**ADV28-T** and **ADV28-R** are respectively a high quality MSK transmitter and receiver with enhanced performances of linearity, consumption and modulation.

**ADV28** System has been developed to provide a middle range point to point data links for mobile or fixed applications.

Line-of-sight transmission range is up to 10 km with omni-directional antennas at both sides, and more than 100 Km with 14 dBi gain antenna. The system allows data transmission of up to four asynchronous channels with a raw data rate of 200 kbps. A dedicated software interface is provided with the equipment to facilitate the configuration of the transmitter and receiver.

### APPLICATIONS

- Point to Point and Point to Multipoint
- Remote control, telemetry, data...
- Mobile and fixed applications
- Ground to Air or Ground to Ground links
- Short or medium range transmission, up to 100km with 2W amplifier and 14dBi antenna on receiver side



Transmitter  
**ADV28-T**



Receiver  
**ADV28-R**

### FEATURES

- MSK demodulation
- PLL synthesized
- Dual conversion Super-Heterodyne
- Raw data rate up to 200 kbps
- Multiplexing capabilities (up to 4 x RS232)
- User interface (Channel config, RSSI,)

### SPECIFICATIONS

#### RF characteristics

Frequency band :	2.22 – 2.35 GHz Others on request
Channels:	4 channels
Modulation:	MSK
TX RF Output Power:	12 to 280 mw (2 dB steps)
RX dynamic range:	- 105 to - 30 dBm
RX sensitivity:	- 100 dBm (BER < 1.1E-6)
RX return loss:	- 13 dB (RF port)
Connector:	SMA

#### Data I/O

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

#### Power

Connector:	MDR-26F
Supply voltage:	12 to 32 VDC
TX Consumption @28V:	3.0 w "ON" 0.8 w "OFF"
RX Consumption @28V:	1.4 w "ON" 0.7 w "OFF"

**Operating temperature** - 40°C to 70°C

#### Mechanical

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

