

FAL-ANT-12

Penta Band GSM + GPS + WCDMA combination antenna

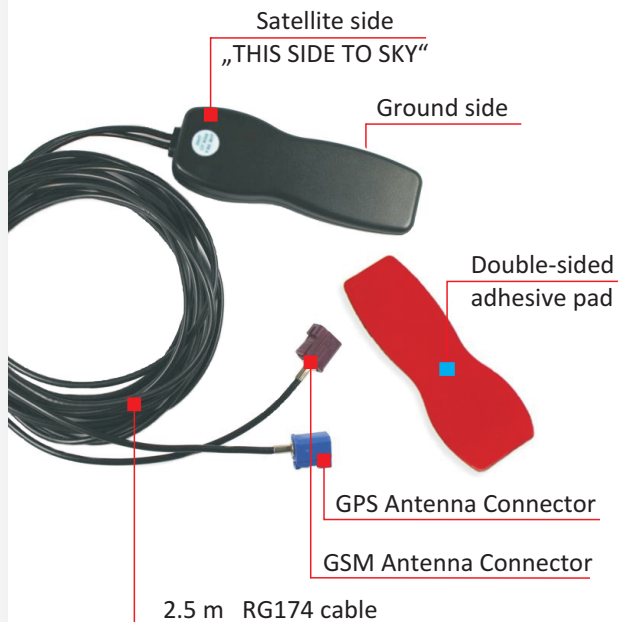
GENERAL DESCRIPTION

The FAL-ANT-12 antenna has been specifically designed for replacing the FAL-ANT-10 combined antenna and for the demands of today's Telematics and AVL systems. Combining a penta-band (850/900/1800/1900MHz, WCDMA 2100MHz) quarter wave planar antenna with a high performance amplified GPS antenna in a single, low profile windscreen mounted wedge. The FAL-ANT-12 is ideally suited to the current market trend of manufacturers supplying GPS receivers with an integrated LNA. Delivering 18dBi (nominal) at the connector, it also meets the specification of most "high sensitivity" GPS receivers. It is supplied in black, with 2.5 metres of RG174 cable and is terminated with FAKRA connectors.

The FAL-ANT-12's unique shape lends itself to a range of internal mounting options. The compact form-factor, the simple installation and the excellent price/performance are making out of the FAL-ANT-12



INTERFACES



ANTENNA SPECIFICATION

Penta- Band GSM + GPS + WCDMA combination antenna	
Frequency:	GSM: 850/900/1800/1900 MHz WCDMA: 2100 MHz
GPS Frequency:	1575.42 MHz
Size (Nominal):	110mm(L) x 36mm(W) x 19mm(H)
Mounting:	Double sided self adhesive pad
Construction:	Black ABS Plastic
Gain (typical):	GSM: 2dBi; GPS: 18dBi
Supply Voltage:	GPS: 2.5 V to 5.5 VDC
Power consumption (GPS):	GPS: 12 mA max. @ 3.0 VDC
Weight (including connectors and cable) :	100 grams
Operating and Storage Temperature:	-40 to +85 °C
Cable length:	2.5m of RG174 (x2 Cables)
Impedance:	50 Ohms
Humidity:	95% Max.
Sealing:	Non waterproof (internal use only)
GSM antenna connector :	FAKRA - bordeaux colour
GPS antenna connector :	FAKRA - blue colour

MOUNTING INSTRUCTIONS

- Designed for on-glass and non-metallic mounting surfaces.
- Recommended installation position on front windscreen
- Antenna position at least 20 mm from any metal surface.
- Installation location should be dried from oil, water etc.
- Satellite side of the antenna must face up, towards the sky.

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