

Flyaway 75cm

FLY-075-M/F-xx-B

The **Temix FLY-075-M/F-xx-A 75cm Ultra-Portable Flyaway Antenna** is designed for the lightest portable worldwide transmit operations in **Single, Dual or Tri-Bands**.

This antenna system, with Manual or Full Motion drive system, consists of a Segmented Carbon Fiber reflector and a lightweight aluminium tripod base mount that results in a high portability and fast deployment suitable as rapid reaction Kit.



- **Assembling "100% Tools Free".**
- **Set-up Time in less than 5 minutes.**

The unique shape and the accurate reflector surface provide good sidelobe and cross polarization performance. Repeatability is maintained with precision registration of the 6 reflector segments and the feed support structure. All the models are provided with a 2-Port Feed as a standard. In Dual and Tri-Band configuration the Feeds are interchangeable on field, fast and No-Tools.

Fully 3-Axes Autopointing System:

the 75cm Full Motion Flyaway is fully motorized and together with the Antenna Control Unit can automatically perform



the satellite Autopointing including Stow & Deploy, Peaking and Tracking (Step-Track); includes GPS & Inclinator, Angle Transducers and Hardware Limit Switches.

Manual Drive System:

a pointing support tool allows a reliable and secure pointing in any condition, with simple operations through an handheld touch screen terminal (ASAC200). It integrates built-in GPS, Compass, Inclinator, DVB-S Receiver and a Processor Module providing all the necessary instruction to drive manually the Flyaway Antenna to acquire the selected satellite with no need of supplementary equipment.



Transit Cases:

all devices are included in a Single or two (for motorized system) IATA Compliant Transit Cases or Back-Pack constructed for aircraft transportation. The cases are lined with closed cell high density foam and the parts are custom fit and supported with the foam for extra protection.

Main Features

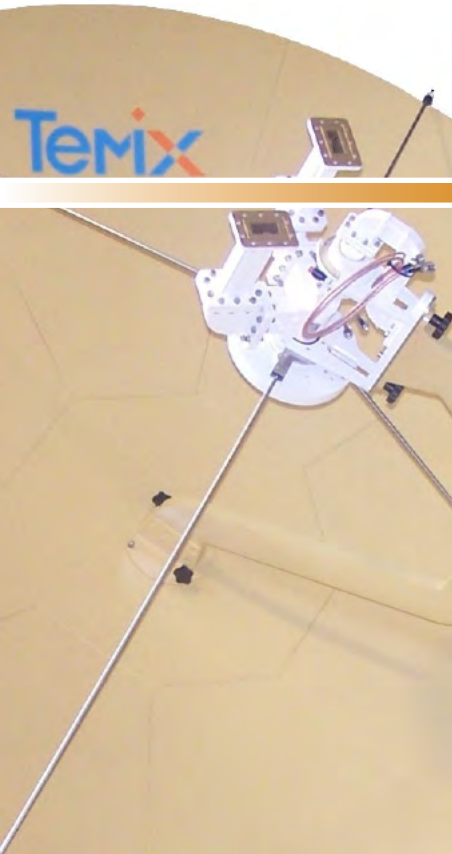
- **Carbon Fiber Reflector**
 - Precision Surface
- **Easy Deployment**
 - Optimized Weight matching best strength
 - Captive Hardware
 - Precision Alignment
 - **ULTRA PORTABLE**
- **High Performance**
 - Low Sidelobes
- **Compliances:**
 - EESS-502, IESS-601E,
 - MIL-STD-188-164B
 - MIL-STD-810G

*The Information included in this data sheet may be changed without advise. rev_01/14

TEMIX Communication Engineering

Corso Michelangelo Buonarroti, 61/b
95039 Trecastagni (Catania) - ITALY
Tel. + 39 095 8996903
Tel. + 39 095 8880189
info@temix.it
www.temix.it

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communications engineering



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FLY-075-M/F-xx-B

| | X-Band | Ku-Band | Ka-Band |
|----------------------------------|--|------------------------------------|------------------------------------|
| Polarization | Circular | Linear | Circular |
| Frequency Range (GHz) - standard | Rx: 7.250-7.750 Tx: 7.900-8.400 | Rx: 10.95-12.75 Tx: 13.75-14.50 | Rx: 19.20-21.20 Tx: 29.00-31.00 |
| Frequency Range (GHz) - optional | //// | //// | Rx: 17.70-20.20 Tx: 27.50-30.00 |
| Gain (mid band) | Rx: 33.5 dBi Tx: 34.2 dBi | Rx: 37.4 dBi Tx: 39.0 dBi | Rx: 42.0 dBi Tx: 44.3 dBi |
| G/T (10° EL, Clear Sky) | 12.0 dB/K (0.7dB LNB NF) | 15.5 dB/K (0.8dB LNB NF) | 17.8 dB/K (1.4dB LNB NF) |
| Cross Pol Isolation | //// | >30dB on axis >26dB 1dB Contour | //// |
| Axial Ration | < 2dB | //// | < 1dB |
| Isolation Tx/Rx | 90/90 dB | 90/35 dB | 85/85 dB |
| Insertion Loss Tx/Rx | 0.6/0.45 dB | 0.3/0.25 dB | 0.3/0.25 dB |
| Return Loss Tx/Rx | > 17.0 dB typ (Rx/Tx) | | |
| Physical: | | | |
| Feed Interfaces | Rx: WR112 Tx: CPR112 | Rx: WR75 Tx: WR75 | Rx: WR42 Tx: WR28 |
| Optic Geometry | Offset prime center focus | | |
| Mount Geometry | Elevation over Azimuth Tripod | | |
| Travel Range | | | |
| Manual & Full Motion Drive | AZ: 360°; EL: 5° to 90°; POL: +/-110° (Linear Polarization) Continuous | | |
| Drive Speed | 2°/sec deploy; 0.2°/sec peaking (Adjustable) | | |
| Controller | Advanced Satellite Acquisition Controller (for manual drive system) for pointing supporting or Antenna Control Unit for Fully Automatic Autopointing | | |
| Environmental: | | | |
| Wind | Operational 70km/h (with ballasts or anchors); Survival 100km/h deployed (with ballasts or anchors); 120km/h stowed | | |
| Temperature | Operational -20°/50°C; Storage -30°/60°C; (optional: -32°/55°C Operational, -40°/70°C Storage) | | |
| Humidity | 100% Condensing | | |
| Altitude | up to 5000m | | |
| Colors | White RAL9010 gloss 5 (standard); Green, Desert or other colors optional | | |

Other Features:

Transit Cases:

Weight & Dimensions

IATA Compliant

SoftBag set-up

1: < 155 cm, < 23kg (*)

(*) including LNB and BUC up to 50W (ku)

TransitCase

1: < 155 cm, < 32kg

Models Legenda:

xx=XC "X-Band Circ. Pol"

xx=KU "Ku-Band"

xx=AC "Ka-Band Circ. Pol"

M= Manual Drive

F= Full Motion Drive

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Option: Military or Standard Equipment FlightCases with shock absorbers, Rear I/O Interface Panel, Power Distribution Unit.



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