



Flyaway 1.0m

FLY-100-M/F-xx-E

The **Temix FLY-100-M/F-xx-D 1.0m 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 100cm 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), Inclined Orbit satellites Tracking; includes GPS & Inclinometer, 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, Inclinometer, 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.

ASAC200 is equipped with an interface to accept an external Lock/AGC reference coming from a third part modem.



Transit Cases:

all devices are included in a Single SoftBag or 2 IATA Compliant Transit Cases 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.

Softbag can include also LNB and BUC (up to 50W in Ku) in a weight less than 23Kg single full package.



Main Features

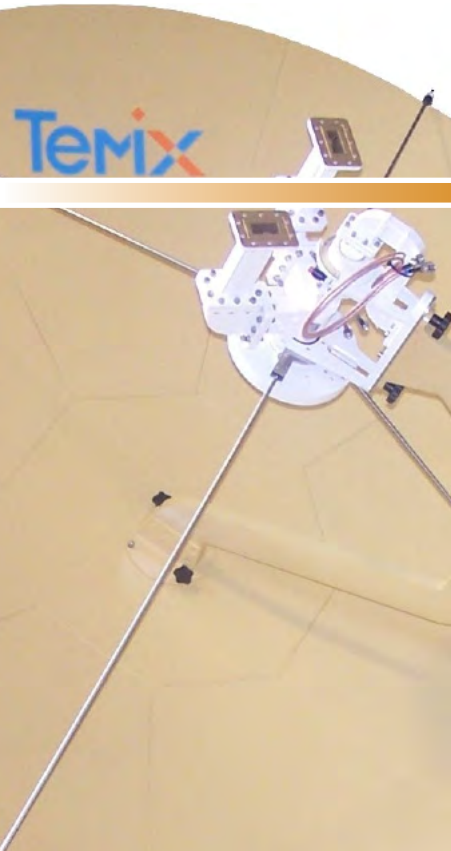
- **Carbon Fiber Reflector**
 - Precision Surface
- **Easy Deployment**
 - ULTRA-PORTABLE
 - Captive Hardware
 - Precision Alignment
- **High Performance**
 - Low Sidelobes
 - Enhanced Cross-pol (Mode-Match) optional
- **Compliances:**
 - EESS-502, IESS-601E,
 - MIL-STD-188-164B
 - MIL-STD-810G

The Information included in this data sheet may be changed without advise. rev_05/14

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FLY-100-M/F-xx-E

	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: 10.70-12.75 Tx: 13.75-14.50	Rx: 19.20-21.20 Tx: 29.00-31.00
Frequency Range (GHz) - optional	////	Rx: 10.95-12.25 Tx: 12.75-14.50	Rx: 17.70-20.20 Tx: 27.50-30.00
Gain (mid band)	Rx: 35.8 dBi Tx: 36.5 dBi	Rx: 39.5 dBi Tx: 41.1 dBi	Rx: 44.6 dBi Tx: 48.0 dBi
G/T (10° EL, Clear Sky)	14.4 dB/K (0.7dB LNB NF)	18.0 dB/K (0.8dB LNB NF)	20.5 dB/K (1.4dB LNB NF)
Cross Pol Isolation	////	>30dB 1dB Contour	////
Cross Pol Isolation w/ mode-match opt.	////	>35dB 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 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.

#2: < 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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