



## Main Features

- Carbon Fiber Reflector
  - Precision Surface
  - High Stiffness
- Easy Deployment
  - Optimized Weight matching best strength
  - Captive Hardware
  - Precision Alignment
- High Performance
  - Low Sidelobes
  - High E.I.R.P. Capability
- Compliances:

EESS-502, IESS-601E, MIL-STD-188-164B MIL-STD-810G

\*The Information included in this data sheet may

# Flyaway 1.9m

# FLY-190-M/F-xx-E

The Temix FLY-190-M/F-xx-E 1.9m Flyaway Antenna is designed for the lightest portable worldwide transmit operations in Single, Dual, Tri or Quad-Bands.

This antenna system, with Manual or Full Motion drive system, consists of a Segmented Carbon Fiber reflector and a robust aluminium tripod base mount that results in a high performance rigid antenna especially suited for hard environmental conditions.

- Assembling "100% Tools Free".
- Set-up Time in less than 10 minutes.



The unique shape and the accurate reflector surface provide good sidelobe and cross polarization performance. Repeatability is maintained with precision registration of the 9 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 190cm 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.





#### Transit Cases:

all devices are packed into **three hardcases** (or four cases depending on additional feeds) 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.









Military or Standard HardCases

◆ TEMIX Commmunication Engineering

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# Flyaway 1.9m





#### Other Features:

Weight & Dimensions

#1: 120x55x51cm, 55Kg (mount)

#2: 100x80x100cm, 48Kg (dish) #3: 107x50x75cm, 44Kg (\*)

#4: 100x48x50cm, 32Kg (\*\*)

(\*\*) additional feeds (Tri/Quad-band)

#### Models Legenda:

xx=CL "C-Band Lin. Pol"

xx=IC "INSAT Circ. Pol" xx=IL "INSAT Lin. Pol"

xx=KU "Ku-Band"

xx=AC "Ka-Band Circ. Pol"

xx=AL "Ka-Band Lin. Pol"

M= Manual Drive

	C-Band	X-Band	Ku-Band	Ka-Band
Polarization	Circular / Linear	Circular	Linear	Circular / Linear
Frequency Range	Rx: 3.625-4.200	Rx: 7.250-7.750	Rx: 10.95-12.75	Rx: 19.20-21.20
(GHz) - standard	Tx: 5.850-6.425	Tx: 7.900-8.400	Tx: 13.75-14.50	Tx: 29.00-31.00
Frequency Range	Rx: 4.500-4.800	////	Rx: 10.95-12.25	Rx: 17.70-20.20
(GHz) - optional	Tx: 6.725-7.025 INSAT		Tx: 12.75-14.50	Tx: 27.50-30.00
Gain (mid band)	Rx: 36.0 dBi	Rx: 41.2 dBi	Rx: 45.1 dBi	Rx: 50.5 dBi
	Tx: 40.0 dBi	Tx: 42.1 dBi	Tx: 46.6 dBi	Tx: 53.5 dBi
G/T	17.6 dB/K	21.4 dB/K	25.4 dB/K	27.1 dB/K
(10° EL, Clear Sky)	(20°K LNB NT)	(55°K LNB NT)	(50°K LNB NT)	(100°K LNB)
Cross Pol Isolation	>30dB 1dB Contour	////	>35dB 1dB Contour	>35dB 1dB Contour
Axial Ration	< 1.3 standard	< 2dB	////	<0.75dB Commercial
	< 1.09 optional			<0.50dB Military
Isolation Tx/Rx	85/35 dB	90/110 dB	90/35 dB	85/85 dB
Insertion Loss Tx/	0.6/0.25 dB	0.9/0.45 dB	0.9/0.25 dB	0.9/0.4 dB
Rx				
Return Loss Tx/Rx	> 17.0 dB typ (Rx/Tx)			
Physical:				
Feed Interfaces	Rx: WR229	Rx: WR112	Rx: WR75	Rx: WR42
	Tx: WR137	Tx: CPR112	Tx: WR75	Tx: WR28
Optic Geometry	Center 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; Beacon Receiver optional.			
Environmental:				
Wind	Operational 60km/h (with ballasts or anchors) gusting to 80km/h; Survival 100km/h deployed (with ballasts or anchors); 130km/h stowed (EL 90°)			
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			



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



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