



FLYAWAY Antenna Series

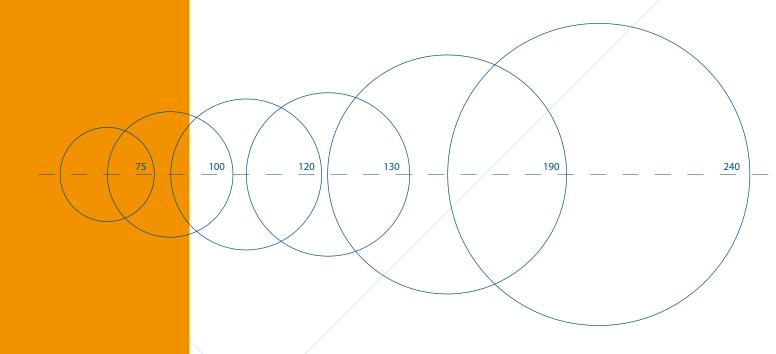
The Temix Flyaway Antenna series is designed to answer to the hardest demands of reliable operations also in extreme environmental conditions taking in highest consideration the point of view of the portability as well as of the easy and fast assembling/disassembling.

Quick No Tools deployment, rugged design, repeatability and compliance of performances with worldwide satellite authorities are the key points.

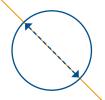
The comprehensive range of sizes includes **75cm**, **100cm**, **120cm**, **130cm**, **190cm** and **240cm** Flyaways.

All the models are available in manual drive, manual drive with pointing supporting tool and fully motorized with automatic satellite acquisition in minutes.

Available in C, X, Ku, DBS, Ka and Q band, thanks to fast lock/unlock swappable feed systems, the Flyaway Antennas can be provided as multiband Terminals.







1.0m FLYAWAY

The Temix FLY-100-M/F-xx-D 1.0m Flyaway Antenna (Single, Dual or Tri-Bands) is designed for the lightest portable worldwide transmit operations.

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

Assembling "100% Tools Free".

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.

Specifications Table

| Features | 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: 19.20-20.20 Tx: 29.00-30.00 |
| Frequency Range (GHz) - optional | //// | Rx: 10.95-12.25 Tx: 12.75-14.50 | Rx: 20.20-21.20 Tx: 30.00-31.00 |
| 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 VSAT STD | //// | >30dB 1dB Contour | //// |
| Cross Pol Isolation SNG STD | //// | >35dB 1dB Contour | //// |
| Axial Ration | < 2dB | //// | < 1dB |
| Isolation Tx/Rx | 90/90 dB | 90/35 dB | 90/35 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 | X-Band | Ku-Band | Ka-Band |
|----------------------------|---|--|--|
| Feed Interfaces | Rx: WR112 Tx: CPR112 | Rx: WR75 Tx: WR75 | Rx: WR42 Tx: WR28 |
| Optic Geometry | Offset prime center focus of | or Dual Optic | |
| Mount Geometry | Elevation over Azimuth Tri | ood | |
| 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 Acquis Antenna Control Unit for F | ition Controller (for manua ully Automatic Autopointing | drive system) for pointing supporting or |

| Environmental | X-Band | Ku-Band | Ka-Band | |
|---------------|---|---|---------|--|
| Wind | Operational 70km/h (with ballas Survival 100km/h deployed (wit | ts or anchors); h ballasts or anchors); 120km/h st | owed | |
| 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 | | | |



all devices are included in a Single 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.

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

Transit Cases:

Weight & Dimensions

Full Motion (dual optic) #1: 150x54x62 cm, 64kg. #2: 150x54x62 cm, 64kg.

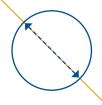
Manual (prime focus) #1: 155 cm, 32kg. #2: 155 cm, 32kg.

Models Legenda:

xx=XC "X-Band Circ. Pol" xx=KU "Ku-Band" xx=KA "Ka-Band Circ. Pol"

M= Manual Drive F= Full Motion Drive





1.2m FLYAWAY

The Temix FLY-120-M/F-xx-D 1.2m Flyaway Antenna (Single, Dual or Tri-Bands) is designed for the lightest portable worldwide transmit operations.

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".

The unique shape and the accurate reflector surface provide good sidelobe and cross polarization performance. Repeatability is maintained with precision registration of the 3 (Dual Optic) or 6 (Prime Focus) 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.

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| Features | 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: 19.20-20.20 Tx: 29.00-30.00 |
| Frequency Range (GHz) - optional | //// | Rx: 10.95-12.25 Tx: 12.75-14.50 | Rx: 20.20-21.20 Tx: 30.00-31.00 |
| Gain (mid band) | Rx: 37.4 dBi Tx: 38.1 dBi | Rx: 41.1 dBi Tx: 42.6 dBi | Rx: 46.2 dBi Tx: 49.6 dBi |
| G/T (10° EL, Clear Sky) | 16.0 dB/K (0.7dB LNB NF) | 19.6 dB/K (0.8dB LNB NF) | 22.1 dB/K (1.4dB LNB NF) |
| Cross Pol Isolation VSAT STD | //// | >30dB 1dB Contour | //// |
| Cross Pol Isolation SNG STD | //// | >35dB 1dB Contour | //// |
| Axial Ration | < 2dB | //// | < 1dB |
| Isolation Tx/Rx | 90/90 dB | 90/35 dB | 90/35 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 | X-Band | Ku-Band | Ka-Band |
|----------------------------|--|---|--|
| Feed Interfaces | Rx: WR112 Tx: CPR112 | Rx: WR75 Tx: WR75 | Rx: WR42 Tx: WR28 |
| Optic Geometry | Offset prime center focus | or Dual Optic | |
| Mount Geometry | Elevation over Azimuth T | ripod | |
| 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 | | isition Controller (for manua Fully Automatic Autopointing | I drive system) for pointing supporting or |

| Environmental | X-Band | Ku-Band | Ka-Band | |
|---------------|---|--|---------|--|
| Wind | Operational 70km/h (with ballas Survival 100km/h deployed (wit | Operational 70km/h (with ballasts or anchors); Survival 100km/h deployed (with ballasts or anchors); 120km/h stowed | | |
| Temperature | Operational -20°/50°C; Storage - | Operational -20°/50°C; Storage -30°/60°C; (optional: -32°/55°C Operational, -40°/70°C Storage) | | |
| Humidity | 100% Condensing | 100% Condensing | | |
| Altitude | up to 5000m | up to 5000m | | |



all devices are included in 2 hardcases 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
- 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

Transit Cases:

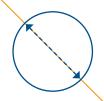
Weight & Dimensions #1: 110x70x87cm, 69Kg #2: 118x55x50cm, 48Kg

Models Legenda:

xx=CC "C-Band Circ. Pol" xx=CL "C-Band Lin. Pol" xx=XC "X-Band Circ. Pol" xx=Ku "Ku-Band"

M= Manual Drive F= Full Motion Drive





1.9m FLYAWAY

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

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".

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.

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| Features | C-Band | X-Band | Ku-Band |
|-------------------------------------|------------------------------------|------------------------------------|------------------------------------|
| Polarization | Circular / Linear | Circular | Linear |
| Frequency Range (GHz) - standard | Rx: 3.625-4.200 Tx: 5.850-6.425 | Rx: 7.250-7.750 Tx: 7.900-8.400 | Rx: 10.95-12.75 Tx: 13.75-14.50 |
| Frequency Range (GHz) - optional | Rx: 4.500-4.800 Tx: 6.425-6.725 | //// | Rx: 10.95-12.25 Tx: 12.75-14.50 |
| Gain (mid band) | Rx: 36.0 dBi Tx: 40.0 dBi | Rx: 41.2 dBi Tx: 42.1 dBi | Rx: 45.1 dBi Tx: 46.6 dBi |
| G/T (10° EL, Clear Sky) | 15.6 dB/K (35K LNB NT) | 20.0 dB/K (70K LNB NT) | 23.6 dB/K (70K LNB NT) |
| Cross Pol Isolation | >30dB 1dB Contour | //// | >35dB 1dB Contour |
| Axial Ration | < 1.3 standard < 1.09 optional | < 2dB | //// |
| Isolation Tx/Rx | 85/35 dB | 90/90 dB | 90/35 dB |
| Insertion Loss Tx/Rx | 0.6/0.25 dB | 0.9/0.45 dB | 1.1/0.25 dB |
| Return Loss Tx/Rx | > 17.0 dB typ (Rx/Tx) | | |

| Physical | C-Band | X-Band | | Ku-Band |
|----------------------------|---|------------------------------|----------------------|---------------------|
| Feed Interfaces | Rx: WR229 Tx: WR137 | Rx: WR112 Tx: CPR112 | Rx: WR75 Tx: WR75 | |
| Optic Geometry | Onset prime center focus | | | |
| Mount Geometry | Elevation over Azimuth Tripo | d | | / |
| 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 Acquisiti Antenna Control Unit for Full | | | nting supporting or |

| Environmental | C-Band | X-Band | Ku-Band |
|---------------|--|---|---------|
| Wind | Operational 70km/h (with balla Survival 100km/h deployed (wi | sts or anchors); th ballasts or anchors); 120km/h st | towed |
| Temperature | Operational -20°/50°C; Storage (optional: -32°/55°C Operational | -30°/60°C; al, -40°/70°C Storage) | |
| Humidity | 100% Condensing | | |
| Altitude | up to 5000m | | |

Transit Cases:

all devices are included into five hardcases (Military Standard) 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
- » 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

Transit Cases:

Weight & Dimensions #1: 150x48x101cm, 74Kg. #2: 184x39x42cm, 58Kg. #3: 150x48x101cm, 77Kg. #4: 150x48x101cm, 80Kg. #5: 184x39x42cm, 45Kg

Models Legenda:

xx=CC"C-Band Circ. Pol" xx=CL"C-Band Lin. Pol" xx=XC"X-Band Circ. Pol" xx=Ku"Ku-Band"

M= Manual Drive F= Full Motion Drive





2.4m FLYAWAY

The Temix FLY-240-M/F-xx-D 2.4m Flyaway Antenna (Single, Dual or Tri-Bands) is designed for the lightest portable worldwide transmit operations.

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".

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.

Specifications Table

| Features | C-Band | X-Band | Ku-Band |
|-------------------------------------|------------------------------------|------------------------------------|------------------------------------|
| Polarization | Circular / Linear | Circular | Linear |
| Frequency Range (GHz) - standard | Rx: 3.625-4.200 Tx: 5.850-6.425 | Rx: 7.250-7.750 Tx: 7.900-8.400 | Rx: 10.95-12.75 Tx: 13.75-14.50 |
| Frequency Range (GHz) - optional | Rx: 4.500-4.800 Tx: 6.425-6.725 | //// | Rx: 10.95-12.25 Tx: 12.75-14.50 |
| Gain (mid band) | Rx: 38.0 dBi Tx: 42.0 dBi | Rx: 43.4 dBi Tx: 44.1 dBi | Rx: 47.1 dBi Tx: 48.7 dBi |
| G/T (10° EL, Clear Sky) | 17.6 dB/K (35K LNB NT) | 22.0 dB/K (70K LNB NT) | 25.6 dB/K (70K LNB NT) |
| Cross Pol Isolation | >30dB on axis >26dB 1dB Contour | //// | >33dB on axis >28dB 1dB Contour |
| Axial Ration | < 1.3 standard < 1.09 optional | < 2dB | //// |
| Isolation Tx/Rx | 85/35 dB | 90/90 dB | 90/35 dB |
| Insertion Loss Tx/Rx | 0.3/0.25 dB | 0.6/0.45 dB | 0.3/0.25 dB |
| Return Loss Tx/Rx | > 17.0 dB typ (Rx/Tx) | | |

| Physical | C-Band | X-Band | Ku-Band |
|----------------------------|--|-------------------------|----------------------|
| Feed Interfaces | Rx: WR229 Tx: WR137 | Rx: WR112 Tx: CPR112 | Rx: WR75 Tx: WR75 |
| 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 | C-Band | X-Band | Ku-Band |
|---------------|---|--------------------------------|---------|
| Wind | Operational 70km/h (with ballast Survival 100km/h deployed (with | | rowed |
| Temperature | Operational -20°/50°C; Storage -3 (optional: -32°/55°C Operational, | 0°/60°C; -40°/70°C Storage) | |
| Humidity | 100% Condensing | | |
| Altitude | up to 5000m | | |

