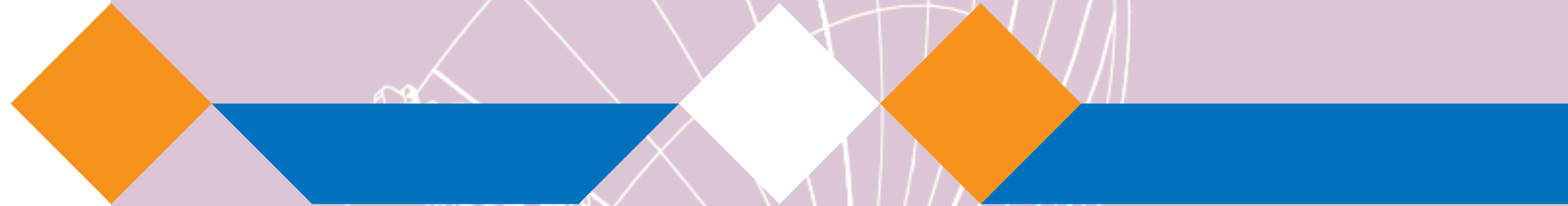


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FLYAWAY



Temix
communications engineering

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All the information included in this datasheet
may be changed without advise.

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communications engineering

130cm FlyAway Ring Focus and Offset Antennas



PRODUCT HIGHLIGHTS

130-140cm High Performances FlyAway Ring Focus Antenna

The Temix 1.3-1.4m FlyAway antenna is designed for lightweight portable worldwide transmit operations. This antenna system consists of a Carbon Fiber reflector and an aluminium tripod base mount that results in high performances rigid antenna especially suited for hard environmental conditions. A quick swap feedarm assembly makes really easy the change of

frequency bands operations from C, X, Ku, K and Ka band. The unique shape and the accurate reflector surface provide good sidelobes and cross polarization performances. Repeatability is maintained with precision registration of the nine reflector segments and the feed support structure. All the models are provided with a 2-Port Feed as a standard.

C-Band	FLY140MCLA (C-band Linear)		FLY140MCCA (C-Band Circular)	
	Receive	Transmit	Receive	Transmit
Frequency (GHz)	3.6-4.2	5.850-6.425 (*)	3.6-4.2	5.85-6.425
Feed Interface	WR229	WR137 or N	WR229	WR137 or N
Midband Gain	32.2dBi	35.7dBi	32.2dBi	35.7dBi

(*) Extended Transmit Frequency band as an option: 5.850-6.725GHz
 (**) INSAT C-Band available

Ku-Band	FLY130MKUA	
	Receive	Transmit
Frequency (GHz)	10.7-12.75	13.75-14.5
Feed Interface	WR75	WR75
Midband Gain	41.5dBi	43.3dBi

◆ Carbon Fiber Reflector

- Light Weight
- Segmented
- Precision Surface
- High Stiffness

◆ Easy Deployment

- One-Person Assembly
- Captive Hardware
- Precision Alignment

◆ INTELSAT & EUTELSAT Compliant

◆ High Performances

- Low Sidelobes
- High E.I.R.P. Capability

130-140cm Ring Focus Hardcases:

Total 3 cases

Reflector case:

Weight: 38 Kg
 Size: 68x66x68 cm

Feed and Feedarm case:

Weight: 36 Kg
 Size: 110x46x75 cm

Tripod case:

Weight: 47 Kg
 Size: 100x51x56 cm

120cm Offset Hardcases:

Total 2 cases

Reflector case:

Weight: 38 Kg
 Size: 145x50x60 cm

Feed, Feedarm and tripod case:

Weight: 50 Kg
 Size: 145x50x60 cm

General Features - valid for both Ring Focus and Offset antennas

Electrical

Tx/Rx Sidelobe	29 - 25 logθ
XPD	≥35dB on axis, ≥30dB 1dB contour
Tx/Rx Isolation	70dB with TRF (110dB available)
VSWR	1.3:1

Mechanical

Mount Type	Elevation over Azimuth Tripod
Elevation Adjustment	0° to 90° Continuous, Fine (Offset) 5° to 85° Continuous, Fine (Ring Focus)
Azimuth Adjustment	±30° Continuous (Offset) ±20° Continuous (Ring Focus)
Polarization Adjustment	±90° Continuous

Environmental

Wind Loading (With Ballast or Anchors)	Operational	40 km/h
	Survival	100 km/h
Temperature	Operational	-20° to +55°C
	Survival	-40° to +65°C
Operational Humidity	95% non-condensing	

120cm FlyAway Offset Antenna

The Temix FLY120M##A 1.2m FlyAway antenna is available also in offset version, and is featured by good performances, easy one-person fast deploy and nice design.

The system is composed by an aluminium tripod and a reflector entirely made in carbon fiber and segmented in three pieces. It is the most cost-effective solution, light and robust.

C-Band	FLY120MCLA (C-band Linear)		FLY120MCCA (C-Band Circular)	
	Receive	Transmit	Receive	Transmit
Frequency (GHz)	3.6 - 4.2	5.850 - 6.425 (*)	3.6 - 4.2	5.85 - 6.425
Feed Interface	WR229	WR137 or N	WR229	WR137 or N
Midband Gain	32dBi	35.5dBi	32dBi	35.5dBi

(*) Extended Transmit Frequency band as an option: 5.850-6.725GHz

Ku-Band

FLY120MKUA	Receive	Transmit
Frequency (GHz)	10.7-12.75	13.75-14.5
Feed Interface	WR75	WR75
Midband Gain	41.1dBi	43dBi

X, K, Ka Bands available



Transportable HardCases

All devices are included into two hardcases constructed for aircraft transportation. Hardware consists of spring loaded recessed handles with Heavy Duty latches and full piano hinges.

The cases are lined with closed cell high density foam and the parts are custom fit and supported with the foam for extra protection. Each case is waterproof. Custom colors may be available.

190cm FlyAway Antenna FLY190M-xx-B



PRODUCT HIGHLIGHTS

The Temix FLY190M##B 1.9m FlyAway antenna is designed for lightweight portable worldwide transmit operations. This antenna system consists of Carbon Fiber reflector and an aluminium tripod base mount that results in high performances rigid antenna especially suited for hard environmental conditions. A quick swap feedarm assembly makes really easy the change of

frequency bands operations from C, Ku and K band. The unique shape and the accurate segmented reflector surface provide good sidelobes and cross polarization performances. Repeatability is maintained with precision registration of the nine reflector segments and the feed support structure. All the models are provided with 2-Port Feed as a standard.

General Features

Electrical

Tx/Rx Sidelobe	29 - 25 logθ
XPD	≥35dB on axis, ≥30dB 1dB contour
Tx/Rx Isolation	70dB with TRF (110dB available)
VSWR	1.3:1
Antenna Optics	Ring Focus

Mechanical

Mount Type	Elevation over Azimuth Tripod
Elevation Adjustment	5° to 85° Continuous, Fine
Azimuth Adjustment	± 20° Continuous
Polarization Adjustment	± 90° Continuous

Environmental

Wind Loading (With Ballast or Anchors)	Operational	40 km/h
	Survival	100 km/h
Temperature	Operational	-20° to +55°C
	Survival	-40° to +65°C
Operational Humidity		95% non-condensing

◆ Carbon Fiber Reflector

- Light Weight
- Segmented (9 pcs)
- Precision Surface
- High Stiffness

◆ Easy Deployment

- One-Person Assembly
- Captive Hardware
- Precision Alignment

◆ INTELSAT & EUTELSAT Compliant

◆ High Performances

- Low Sidelobes
- High E.I.R.P. Capability

C-Band	FLY190MCLB (C-band Linear)		FLY190MCCB (C-Band Circular)	
	Receive	Transmit	Receive	Transmit
Frequency (GHz)	3.6 - 4.2	5.85 - 6.425 (*)	3.6 - 4.2	5.85 - 6.425
Feed Interface	WR229	WR137 or N	WR229	WR137 or N
Midband Gain	36.2dBi	39.7dBi	36.2dBi	39.7dBi

(*) Extended Transmit Frequency band as an option: 5.85 - 6.725GHz

(**) INSAT C-Band available

Ku-Band	FLY190MKUB	
	Receive	Transmit
Frequency (GHz)	10.95 - 12.75 (*)	13.75 - 14.5
Feed Interface	WR75	WR75
Midband Gain	45.5dBi	47.3dBi

(*) Extended Receive Frequency band as an option: 10.7 - 12.75GHz

X and K Bands available



Feed and Feedarm Case



Tripod Case



Reflector Case

190 cm Ring Focus Hardcases:

Total 3 cases

Reflector case:

Weight:	50 Kg
Size:	88x66x88 cm

Feed and Feedarm case:

Weight:	36 Kg
Size:	110x46x75 cm

Tripod case:

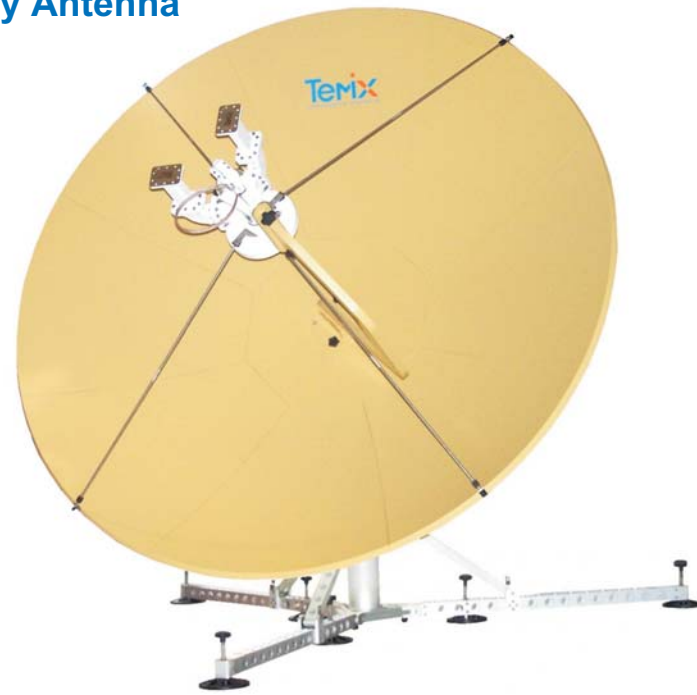
Weight:	50 Kg
Size:	120x51x56 cm

Transportable HardCases

All devices are included into three hardcases constructed for aircraft transportation and IATA compliant. Hardware consists of spring loaded recessed handles with Heavy Duty latches and full piano hinges.

The cases are lined with closed cell high density foam and the parts are custom fit and supported with the foam for extra protection. Each case is waterproof. Custom colors may be available.

240cm FlyAway Antenna FLY240M-xx-A



PRODUCT HIGHLIGHTS

The Temix FLY240M##A 2.4m FlyAway antenna is designed for lightweight portable worldwide transmit operations. This antenna system consists of Carbon Fiber reflector and an aluminium tripod base mount that results in high performances rigid antenna especially suited for hard environmental conditions. A quick swap feedarm assembly makes really easy the change of frequency

bands operations from C to Ku band. The unique shape and the accurate segmented reflector surface provide good sidelobes and cross polarization performances. Repeatability is maintained with precision registration of the nine reflector segments and the feed support structure. All the models are provided with a 2-Port Feed as a standard.

General Features

Electrical

Tx/Rx Sidelobe	29 - 25 logθ
XPD	≥35dB on axis, ≥30dB 1dB contour
Tx/Rx Isolation	70dB with TRF (110dB available)
VSWR	1.3:1
Antenna Optics	Ring Focus

Mechanical

Mount Type	Elevation over Azimuth Tripod
Elevation Adjustment	5° to 85° Continuous, Fine
Azimuth Adjustment	± 20° Continuous
Polarization Adjustment	± 90° Continuous

Environmental

Wind Loading (With Ballast or Anchors)	Operational	40 km/h
	Survival	100 km/h
Temperature	Operational	-20° to +55°C
	Survival	-40° to +65°C
Operational Humidity		95% non-condensing

◆ Carbon Fiber Reflector

- Light Weight
- Segmented (9 pcs)
- Precision Surface
- High Stiffness

◆ Easy Deployment

- One-Person Assembly
- Captive Hardware
- Precision Alignment

◆ INTELSAT & EUTELSAT Compliant

◆ High Performances

- Low Sidelobes
- High E.I.R.P. Capability

C-Band	FLY240MCLB (C-band Linear)		FLY240MCCB (C-Band Circular)	
	Receive	Transmit	Receive	Transmit
Frequency (GHz)	3.6 - 4.2	5.85 - 6.425 (*)	3.6 - 4.2	5.85 - 6.425
Feed Interface	WR229	WR137 or N	WR229	WR137 or N
Midband Gain	38.2dBi	42dBi	38.2dBi	42dBi

(*) Extended Transmit Frequency band as an option: 5.85 - 6.725GHz

(**) INSAT C-Band available

Ku-Band

FLY240MKUB

	Receive	Transmit
Frequency (GHz)	10.95 - 12.75 (*)	13.75 - 14.5
Feed Interface	WR75	WR75
Midband Gain	47.5dBi	49.1dBi

(*) Extended Receive Frequency band as an option: 10.7 - 12.75GHz

X and K Bands available



Reflector Case



Feed and Feedarm Case



Tripod Case

240 cm Ring Focus Hardcases:

Total 3 cases

Reflector case:

Weight:	54 Kg
Size:	112x72x112 cm

Feed and Feedarm case:

Weight:	36 Kg
Size:	110x46x75 cm

Tripod case:

Weight:	50 Kg
Size:	120x51x56 cm

Transportable HardCases

All devices are included into three hardcases constructed for aircraft transportation and IATA compliant. Hardware consists of spring loaded recessed handles with Heavy Duty latches and full piano hinges.

The cases are lined with closed cell high density foam and the parts are custom fit and supported with the foam for extra protection. Each case is waterproof. Custom colors may be available.