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At The Forefront Of Communications Technology

PICO240m

240cm X,C,Ku,and Ka-band manual flyaway terminal

Fully integrated Flyaway terminal

Multiband

Rapid deployment and tooless aseembly

The PICO240 is a **2.4m** fully integrated flyaway terminal that is meticulously engineered for versatility and robust performance across **X**, **C**, **Ku**, and **Ka**-bands.
This system boasts a comprehensive **MIL-STD-810**-compliant design and is also compliant with the requirements of **ITU-R S.465** and the **EUTELSAT ESOG120** standards.
At the heart of the system lies the **RAPU** Unit that contains the ACU, Beacon receiver, control, monitor, and sensor kit module with Mercury app for **rapid satellite acquisition**.

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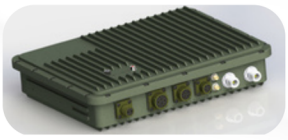
Made by Sweden: Reliability and Innovation in Challenging Environments

TECHNICAL DETAILS

Ku - Band	
Transceivers	ReQuTech feed specifcationKu-band Horn, OMT and filters for optional BUC and LNB
TX Frequency	13.75 - 14.5 GHz
RX Frequency	10.7 - 12.75 GHz
EIRP	65.8 dBW (50W BUC)68.0 dBW (80W BUC)
Polarity	Linear, mechanical skew adjustment
Flange for connections	WR75
Return-loss Tx/Rx	20 dB
Isolation Tx-Rx	80 dB
Tx gain @midband	49.8 dBi
Rx gain @midband	48.2 dBi
Tx XPD	35 dB
Rx XPD	32 dB
Ka- Band	
Transceivers	ReQuTech feed specifcation2 port or 4 port,Feed systems for optional BUC and LNB
TX Frequency	27.5 – 30.0 GHz or29 - 31GHz
RX Frequency	17.7 – 20.2 GHz or19.2 - 21.2 GHz
EIRP	68.6 dBW (20W BUC)70.4 dBW (30W BUC)
Polarity	Circular RHCP / LHCP, mechanical pol. change
Flange for connections	WR28 (Tx)WR42 (Rx)
Return-loss Tx/Rx	20 dB
Isolation Tx-Rx	100 dB
Tx gain @midband	56.1 dBi
Rx gain @midband	52.4 dBi
Axial Ratio	0.8 dB
G/T @ 20° Elev-ation	30.2 dBi/K(LNB NT 50 K)

X- Band	
Transceivers	ReQuTech feed specifcationX-band Horn, OMT and filters for optional BUC and LNB
TX Frequency	7.9 - 8.4 GHz
RX Frequency	7.25 - 7.75 GHz
EIRP	63.6 dBW (80 W BUC)64.5 dBW (100W BUC)
Polarity	Circular RHCP / LHCP, mechanical pol. change
Flange for connections	WR112
Return-loss Tx/Rx	20 dB
Isolation Tx-Rx	110 dB
Tx gain @midband	45.0 dBi
Rx gain @midband	44.1 dBi
Axial Ratio	0.8 dB
G/T Rx @20 deg	24.3 dB/K(LNB NT 50 K)
C- Band	
Transceivers	C-band Horn, OMTand filters for optionalBUC and LNB
TX Frequency	5.85-6.425 GHz
RX Frequency	3.625-4.2 GHz
EIRP	54.8 dBW (20W BUC)60.8 dBW (80W BUC)
Polarity	Circular RHCP /LHCP, mechanical pol.change
Flange for connections	WR28 WR42
Return-loss Tx/Rx	20 dB
Isolation Tx-Rx	110 dB
Tx gain @midband	42.1 dBi
Rx gain @midband	38.1 dBi
Tx AR	0.9 dB
Rx AR	0.8 dB
G/T Rx	18 dB/K(LNB NT 50 K)

Mechanical details	
EL/AZ Positioner	Manually pointed positioner
Pol Skew Adjust (Lin pol)	±180° LinearRHCP LHCP Circular
Reflector	ReQuTech Segmented2.4m Carbon Fibre
Elevation Travel	0° to 90°, pointingaccuracy 0.02°
Azimuth Adjustment	360° Pointing Accuracy 0.02°
Assembly Time	2-men < 20 mins
Weight	335 kg in X band configuration
Packed in 8 cases	Estimated Total Weight:330kgCase sizes vary according to RF specification
Environmental details	
Wind - Operational	40kph (25mph) noballast/anchors
Wind - Operational	80kph (50mph) withballast/anchors
Wind - Survival	130kph (80mph) withballast/anchors
Temperature(Operational)	-30°C to 60°C
Temperature(Storage)	-40°C to 70°C
Shock andVibration	Designed to meet MIL-STD-810G
Corrosion	Suitable for all regionsincluding Marine andIndustrial
Humidity	100% with condensation
Rain	>100mm/hr



RAPU for fast satellite acquisition

The Requtech Assisted Pointing Unit (RAPU) houses the Antenna Control Unit (ACU), and all sensors required for assisted pointing, system monitoring and control.

Requtech AB, based in Linköping, Sweden, is at the forefront of satellite communication technology. We specialize in developing high-performance, reliable satellite communication systems. Our mission is to revolutionize communication capabilities, enhancing global connectivity through innovative solutions.

Contact information

Telephone +46 (0)13 311771

E-mail info@requtech.se

www.requtech.com