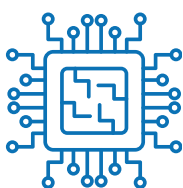


PICO 120a



1.2m X, Ku, and Ka-band Autopointing Flyaway terminal



Fully integrated flyaway terminal



Multiband



Rapid deployment and toolless assembly

The PICO 120a is a **1.2m Multiband auto-pointing** terminal that takes portability and convenience to the next level. **Eutelsat characterized** and compliant with international standards the terminal is equipped with interchangeable feed systems, the PICO120a offers fast frequency band switching between **X, Ku,** and **Ka**. For seamless **MEO** operation, our terminals are provided in pairs, featuring advanced satellite tracking and handover capabilities, ensuring uninterrupted connectivity over the **SES O3b mPOWER constellation**. It also works effortlessly as a single terminal for **GEO** so you can always stay connected with the PICO120a. 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**.



Ku - Band		Ka - Band		X- Band	
Feed	Ku-band Horn, OMT and filters for optional BUC and LNB	Feed	2 port or 4 port, Feed systems for optional BUC/LNB	Feed	X-band Horn, OMT and filters for optional BUC and LNB
TX Frequency	13.75 - 14.5 GHz	TX Frequency	27.5 – 30.0 GHz or 29 – 31GHz	TX Frequency	7.9-8.4 GHz
RX Frequency	10.7 - 12.75 GHz	RX Frequency	17.7 – 20.2 GHz or 19.2 – 21.2 GHz	RX Frequency	7.25 - 7.75 GHz
EIRP	55.4 dBW (with 20W BUC) 53.3 dBW (with 12W BUC)	EIRP	65.0 dBW (with 40W BUC) 62.0 dBW (with 20W BUC) 59.8 dBW (with 12W BUC)	EIRP	51.7 dBW (with 25W BUC) 55.1 dBW (with 55W BUC)
Polarity	Linear, mechanical skew adjustment	Polarity	Circular RHCP / LHCP, mechanical pol. change	Polarity	Circular RHCP / LHCP, mechanical pol. change
Flange for connections	WR75	Flange for connections	WR28 WR42	Flange for connections	WR112
Return-loss Tx/Rx	20 dB	Return-loss Tx/Rx	20 dB	Return-loss Tx/Rx	20 dB
Isolation Tx-Rx	70 dB	Isolation Tx-Rx	70 dB	Isolation Tx-Rx	70 dB
Tx gain @midband	43.5 dBi	Tx gain @midband	49.6 dBi	Tx gain @midband	38.7 dB
Rx gain @midband	42.8 dBi	Rx gain @midband	46.5 dBi	Rx gain @midband	38.0 dBi
Tx AR	30 dB	Tx AR	0.9 dB	Axial ratio	1 dB
Rx AR	30 dB	Rx AR	0.8 dB	G/T Rx	17.8 dB/K
G/T RX	21.4 dB/K	G/T Rx	24.9 dBi/K		

Mechanical details	
Azimuth	adjustment ± 100°, with pointing accuracy 0.1°
Elevation	adjustment 0-90°, with pointing accuracy 0.1°
Pointing stability	≤ 0.16°
Beam drift	Under wind flow 75 km/h - beam drift below 0,35°
Time to acquisition	Typically 5 minutes
Assembly Time	< 20 mins
Weight	
Packaging: Option of soft or hard cases	Total weight of system including 55W BUC, LNB and RAPU: 72 kg.

Environmental details	
Wind - Operational	45 km/h (gusts 75 km/h)
Temperature (Operational)	-30°C to 52°C
Temperature (Survival)	-40°C to 60°C
Shock and Vibration	Designed to meet MIL-STD-810G
Corrosion	Suitable for all regions including marine and industrial
Humidity	100% with condensation
Rain	>100mm/hr

M&C Box for fast satellite acquisition
The M&C box houses the ACU, Driver unit, and all sensors required for system monitoring and control. The ACU runs ReQuTechs proprietary Mercury software suite; its GUI can be accessed Web interface via Ethernet.



Requitech 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.

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