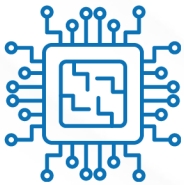


PICO75



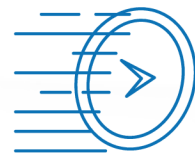
75cm X, Ku, and Ka-band manpack terminal



Fully integrated manpack terminal



Multiband



Rapid deployment and toolless assembly

The PICO75 is a **75cm** fully integrated flyaway manpack terminal that is meticulously engineered for versatility and robust performance across **X**, **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**.



characterized

requtech

Made by Sweden: Reliability and Innovation in Challenging Environments



TECHNICAL DETAILS

Ku - Band		Ka - Band		X - Band	
Transceivers	ReQuTech feed specification Ku-band Horn, OMT and filters for optional BUC and LNB	Transceivers	E TRIA transceiver, Skyware Technologies, HughesNet transceiver ReQuTech feed specification 2 or 4 port, Feed systems for optional BUC/LNB	Transceivers	ReQuTech feed specification X-band Horn, OMT and filters for optional BUC and LNB
TX Frequency	13.75 - 14.5 GHz	TX Frequency	29.0 – 30.0 GHz	TX Frequency	7.9-8.4 GHz
RX Frequency	10.7 - 12.75 GHz	RX Frequency	19.2 – 20.2 GHz	RX Frequency	7.25 - 7.75 GHz
EIRP	51.5 dBW (with 20W BUC) 49.3 dBW (with 12W BUC)	EIRP	57.2 dBW (with 20W BUC) 55.0 dBW (with 12W BUC)	EIRP	47.2 dBW (with 25W BUC) 50.7 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	39.3 dBi	Tx gain	45.2 dBi	Tx gain	34.3 dBi
Rx gain	39 dBi	Rx gain	42.2 dBi	Rx gain	33.6 dBi
Tx XPD	30 dB	Tx AR	0.9 dB	Tx AR	1 dB
Rx XPD	30 dB	Rx AR	0.8 dB	Rx AR	1 dB
G/T RX	19.2 dBi/K	G/T Rx	22.4 dBi/K	G/T Rx	11.3 dBi/K

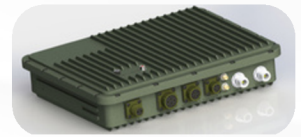
Mechanical details	
Azimuth	Fine adjustment ± 10° Pointing accuracy 0.1°
Elevation	0-90° Quick adjustment ±10° Fine adjustment ±5°
Pointing stability	Pointing accuracy 0.1°
Beam drift	≤ 0.16° < 0.35° (wind < 75 km/h)
Time to acquisition	Typically 5 minutes
Assembly Time	< 10 mins
Weight	PICO 75 with BUC (25W), LNB, RAPU, waveguide and GPS antenna system: 15 kg
Packed in 1 case/bag	Total terminal weight with IATA soft case: 25 kg Total terminal weight with IATA hard case: 32 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

RAPU for fast satellite acquisition

The Requitech Assisted Pointing Unit (RAPU) houses the Antenna Control Unit (ACU), and all sensors required for assisted pointing, system monitoring and control. The RAPU runs Requitech's proprietary Mercury software suite; its GUI can be accessed either by Android app over WiFi/Bluetooth or Web interface via ethernet.

The RAPU can optionally be provided with an embedded modem and/or beacon receiver for a complete turnkey terminal solution. The ACU supports OpenAMIP communications and is OpenBMIP ready. This means that the ACU is able to communicate with most modems on the market. Please contact Requitech if your configuration requires other non-OpenAMIP modems.



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.

Contact information

Telephone +46 (0)13 311771
E-mail info@requitech.se
www.requitech.com



The present documentation provides typical specifications and data may change without notice. © All rights reserved. No part of this publication may be reproduced, distributed, or transmitted in any form or by any means, without the prior written permission of ReQuTech AB.