P-SM-1200

The P-SM-1200, integrated with the advanced modems such as iDirect, Hughes, NewTec, Comtech, Gilat, Viasat and etc…. The P-SM-1200 is designed to meet the demanding requirements of both commercial and defense applications, the P-SM-1200 ensures reliable and secure communication in even the harshest conditions.

The P-SM-1200 combines the cutting-edge features of the any modem that makes it an ideal choice for applications require high-performance, adaptable satellite communication solutions.

The P-SM-1200 is tailored to serve a wide range of industries and scenarios, including enterprise Networks by providing robust connectivity for business-critical operations like as Cellular Backhaul, Land Mobile, Maritime Applications. It is built with a rugged, weather-resistant enclosure and it is optimized for outdoor use, ensuring uninterrupted performance in extreme conditions.

Whether for defense operations, commercial enterprises, or remote connectivity needs, the P-SM-1200 offers a powerful, versatile, and dependable solution for satellite communications.

Key Features

➤ High-speed broadband iP connectivity over satellite using VSAT for C, Ku, and Ka bands

➤ Supports DVB-S2/S2X and ACM on the outbound and A-TDMA on the inbound

➤ Provides advanced routing, VLAN, and other IP-based user services

➤ Dual-mode compatibility with Evolution and Velocity networks

➤ Optional 256-bit AES Link Encryption

➤ Supports both 10 MHz and 50 MHz reference signals for BUC

➤ Seamless integration with OpenAMIP

➤ Built with an IP67 weatherproof design

P-SM-1200

ENVIRONMENTAL & MECHANICAL DATA

Operating Temperature	-20°C to +60°C
Storage Temperature	-40°C to +85°C
Relative Humidity	Up to 100%
Weatherproof	IP67
Dimension	(excluding interface connectors) L230 x W230 x H43mm L9.06" x W9.06" x H1.69"
Weight	2.5Kg / 5.51lbs

INTERFACES

	TX Interface	RX Interface
Interface	Connector F-Type Female 75Ω Frequency Range 950-2400 MHz Tuning Step Size 10 Hz TX Output Power Level -35dBm to 0dBm Output Power Step Size 0.5 dB BUC Power Supply +24V, 2.3A (max) BUC Reference 10/50 MHz, 0dBm	Connector F-Type Female 75Ω Frequency Range 950-2150 MHz LNB Power Supply 13/18/21V, 0.5A (max) LNB LO Selection 22 KHz Tone On/Off
Data Interface	LAN 1 / LAN 2 RJ45 (RCM-00AMMA-SLM7001) 10/100/1000 Mbps Ethernet Protocol Supported TCP, UDP, ICMP, DHCP, NAT/PAT, DNS, ROHCv2, RIPv2, IGMPv2, IGMPv3, ICMP, IPv4 (IPv6 over L2oS), L3 Security 256-bit AES Link Encryption (optional) Traffic Engineering QoS, CIR (Static and Dynamic)	
Management Interface	Console RJ45 (RCM-00AMMA-SLM7001)	
Power Supply Interface	Connector AMPHENOL:62IN-12E-12-4P Male (Pin A – Positive; Pin B – NC; Pin C – Negative; Pin D – NC) DC Input Voltage 24VDC (22.8V – 25.2V) DC Input Current (excluding BUC & LNB) 0.63 A typ. Power Consumption (excluding BUC & LNB) 15 W typ.	

COMPATIBILITY

	TX Compatibility	RX Compatibility
Network Topology	Adaptive TDMA	DVB-S2X/ACM / DVB-S2/ACM
Modulation	SS-BPSK, BPSK, QPSK, 8PSK, 16QAM	QPSK, 8PSK, 16APSK, 32APSK, 64APSK, 128APSK, 256APSK / QPSK, 8PSK, 16APSK, 32APSK
FEC	2D 16-State 1/2 – 6/7	Refer to the LBA guide / LDPC 1/4 - 8/9
Symbol Rate	128 Ksps to 15 Msps	5 Msps to 100 Msps / 1 Msps to 45 Msps
Spread Spectrum	Spreading Factor: 2,4,8; Up to 7.5 Mcps	NA