ASM1200 Series

iQ200 Outdoor Satellite Modem

Agilis ASM1200-24, integrated with iDirect iQ200 modem, is a compact, rugged, outdoor satellite modem for use in challenging environments

Compatible with Evolution and Velocity networks, combining high performance iQ series feature with the power of a full internet protocol router, Agilis ASM1200-24 is designed to meet commercial and defence application requirements, ideal for enterprise, cellular backhaul, land mobile and maritime applications.

Features

- Features small size, weight, and power (SWAP)
- Enable high-speed broadband IP connectivity over satellite using Very Small Aperture Terminals (VSAT) for C, Ku and Ka bands
- Supports DVB-S2/S2X and ACM on the outbound, and A-TDMA on the inbound
- Provides routing, VLAN and other user-side IP-based services
- Ideal for fixed, mobile, and enterprise-class applications
- Dual Mode remote - Evolution and Velocity compatible
- Security features with 256-bit AES Link Encryption (optional)
- 10 and 50MHz reference for BUC
- OpenAMIP compatibility for ease of integration
- Layer 2 and Layer 3 optimized
- IP67 Weatherproof
- RoHS Compliant

Quality Assurance

100% thorough stringent quality checks in addition to well-defined Environmental Stress Screening to ensure operation in harsh outdoor environment conditions. All subjected to seal test for water ingression verification.

Reliability

Designed to withstand operational temperature ranging from -20°C to +60°C under 100% humidity.

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Technical Specifications

Network Configuration

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

Interfaces

TX 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) @TX connector
BUC Reference	10/50 MHz, 0dBm

RX Interface

Connector	F-Type Female 75Ω
Frequency Range	950-2150 MHz
LNB Power Supply	13/18/21V, 0.5A (max) @RX connector
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)

Interfaces

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.

Environmental

Operating Temperature	-20°C to +60°C
Storage Temperature	-40°C to +85°C
Relative Humidity	Up to 100%
Weatherproof	IP67

Mechanical

Dimension (excluding interface connectors)	L230 x W230 x H43mm L9.06" x W9.06" x H1.69"
Weight	2.5Kg / 5.51lbs

NOTE: All specifications subject to change without notice
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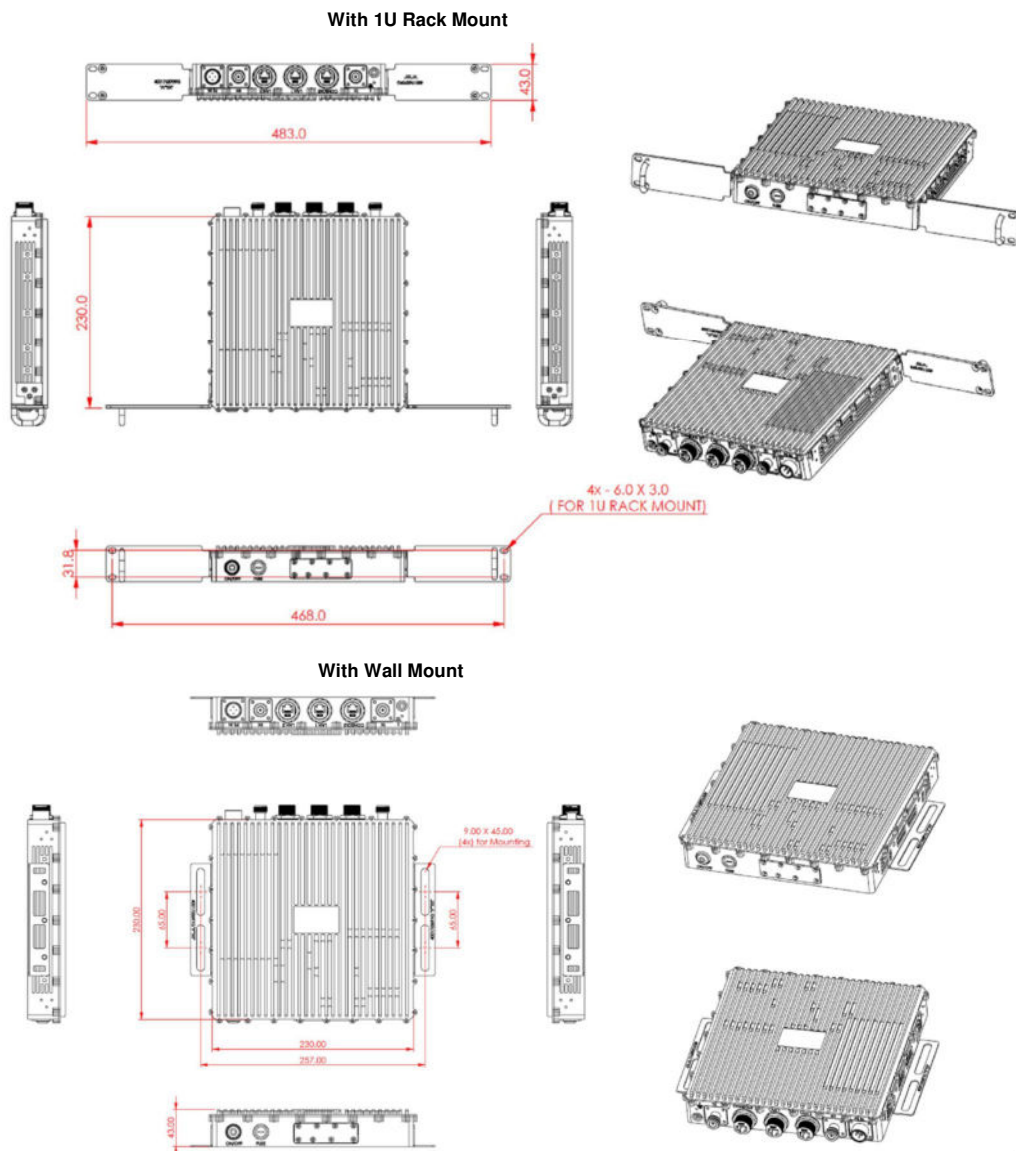
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Standard Part List for Standalone Configuration

ITEM	PRODUCT NAME	OPTION	PART NUMBER	QTY	DESCRIPTION
1	Modem		ASM1200-24	01	Modem
2	Connector		5702200042	01	CONN PLUG STRAIGHT SOCKET 12-4S SOLDER
3	Connector		P0006973-0001	02	CONN ETH RJ45 METAL SCREW THREAD IP67

Option Items

ITEM	PRODUCT NAME	OPTION	PART NUMBER	DESCRIPTION
1	PSU		APSVAC24-185	Outdoor Power Supply Unit 90-265VAC Input 24VDC Output
2	Adapter Cable		2502042528	C/A M12 5P TO 12-4S IQ200 DC INPUT 1.5M (for existing X1 outdoor PSU)
3	Power Supply Input Cable		2502042554	C/A DC 12-4S TO 4CORE OPEN END 2M
4	Rack Mount Bracket		4001763708G	BRACKET PANEL RM HOLDER MODEM IQ200

Mounting Diagram

With 1U Rack Mount

With Wall Mount

NOTE: Drawing subject to change without notice
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