



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 ingress verification.

Reliability

Field proven under harsh environment conditions. Agilis ODU's can withstand 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
Symbol Rate	5 to 100 Msps	1 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	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)
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Power Supply Interface

Connector	KPT02E12-3P Male
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

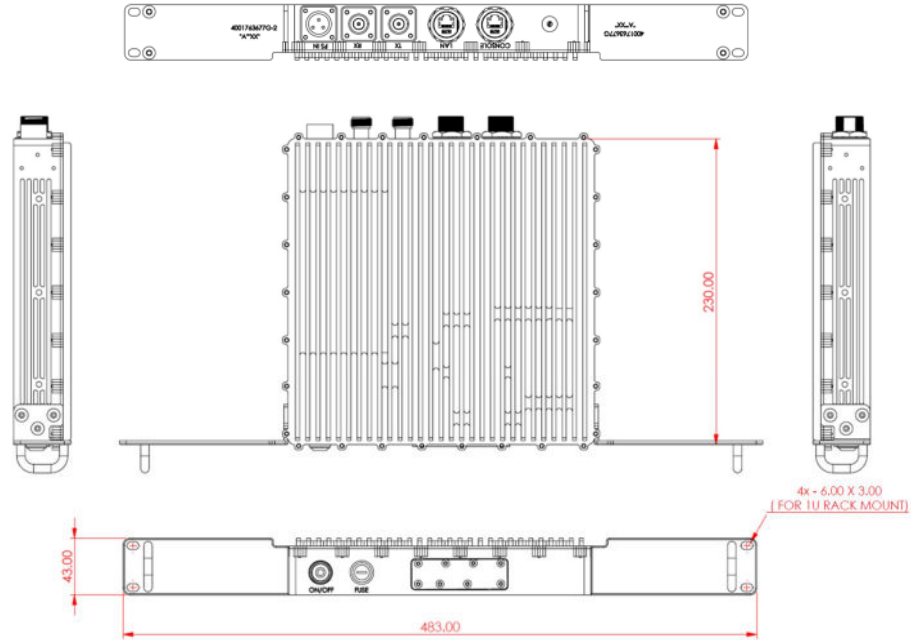
Dimension (excluding interface connectors)	L230 x W230 x H43mm L9.06" x W9.06" x H1.69"
Weight	2.5Kg / 5.51lbs

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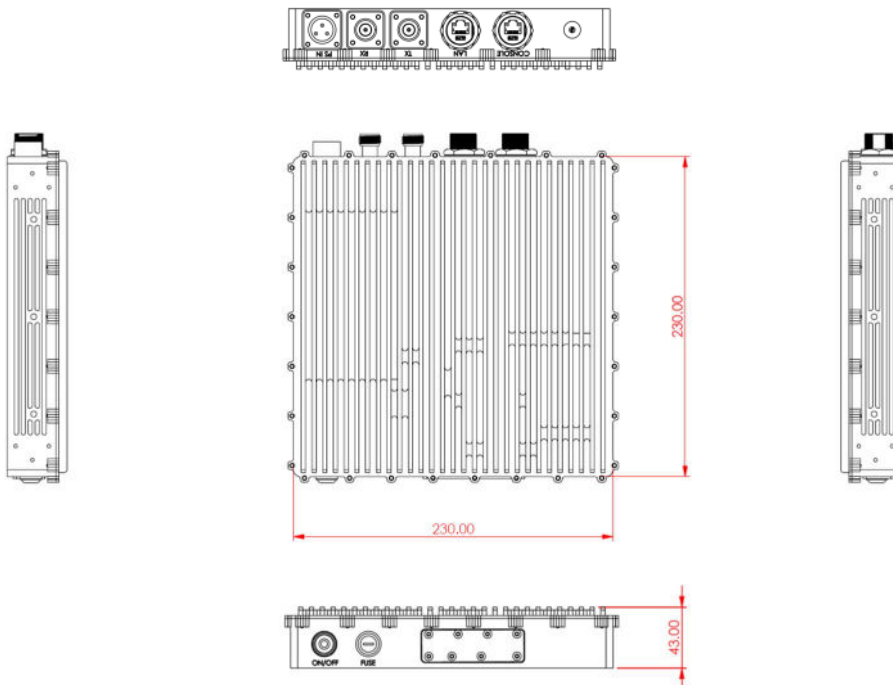
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Mounting Diagram

With Rack Mount



Without Rack Mount



NOTE: Drawing subject to change without notice
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