

GRM 700

rugged iDirect satellite modem

GRM 700 offers the high-performance features of iDirect's X7 series in a low-cost rugged housing, making it ideal for users looking for a lightweight, compact satellite modem suited to challenging environments

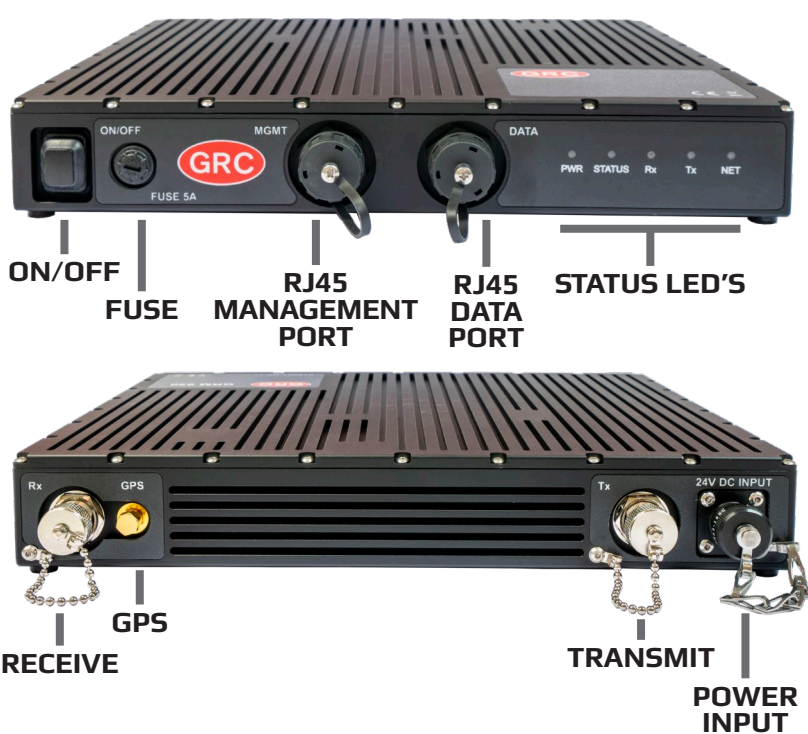


KEY FEATURES

- iDirect Evolution and Velocity compatible
- Operational on all major satellite networks
- Ruggedised IP67 design
- CE marked
- Terminal agnostic
- Lightweight and low power requirements
- 256-bit AES Link Encryption (optional)
- Suitable for both fixed and mobile applications



SECURE SOLUTIONS FOR SATELLITE, RF,
IP NETWORKS AND CLOUD SERVICES



GRM 700 is a low-cost, ruggedised, outdoor iDirect X7 satellite modem for use in tough environments.

Developed in conjunction with leading satellite hardware and airtime providers, GRM (GRC Rugged Modem) have been tested into iDirect hubs across multiple satellite service provider networks. Supporting both fixed location and mobile applications, they have been extensively trialled on a diverse range of terminals from comms-on-the-move (COTM), to man portable and large static dishes.

Compatible with Evolution and iDirect Velocity networks, IP67 rated and CE Marked, GRM modems are designed to meet defence and commercial requirements, while still delivering a cost-effective modem, that's flexible enough to operate on a diverse range of terminals and networks, yet intuitive enough for end users with minimal training.



The GRM family of rugged iDirect Modems, including the GRM 950, 700, 200 and 200 Mini.

TECHNICAL SPECIFICATIONS

Mechanical / Environmental

Size	5 x 30 x 27 cm (Height x Width x Depth)	
Weight	3.3 kg	
IP Rating	IP67	
Operating Temperature	-40° to +60°C (-40° to +140°F)	
Altitude	Operational up to 4,572m (15,000 ft)	
Humidity	95% non-condensing humidity	
Input Voltage	12-24VDC	
Power Consumption	< 20W	
Certifications	CE Certified, WGS Certified, built to meet FCC, UL, EU and Canadian standards, RoHS compliant, meets MIL-STD 810G	

Network Configuration (Evolution only and software dependent)

Compatibility	Evolution® and iDirect Velocity™ compatible	
Network Topology	DVB-S2 with Adaptive TDMA Returns	
	Downstream DVB-S2/ACM	Upstream A-TDMA
Modulation	QPSK, 8PSK, 16APSK, 32APSK	BPSK, QPSK, 8PSK
FEC	LDPC 1/4-8/9	2D 16-State 1/2-6/7
Maximum Rates (Symbol)	45 Msps	7.5 Msps
Maximum downstream and upstream data rates cannot be achieved simultaneously. Maximum rates are achieved with optimal configurations.		
Spread Spectrum	Spreading Factor Max Rate Mcps	2, 4 and 8 up to 7.5 Mcps

Interfaces

SATCOM Interfaces	Tx: SMA, 950-1950 MHz, +5dBm/-35dBm, 50Ω	
	Rx: SMA, 950-2150 MHz, -5dBm (max) composite / -130+10*log (Sym rate) dBm (min) single carrier, 50Ω	
	Rx Reference Port (Out): SMA, 50Ω	
	Software controllable 10/50 MHz reference on Tx and Rx Reference Port Out	
Available BUC Power (IFL)	+24V, 2A max available @ connector	
Available LNB Power (IFL)	Rx: 13-19V @ 0.45A, 22kHz DiSEqC tone	
Data Interfaces	LAN: Dual 10/100/1000 Mbps Ethernet GPS input	
Protocols Supported	TCP, UDP, ICMP, IGMP, RIPv2, Static Routes, NAT, DHCP, DHCP Helper, Local DNS Caching, OpenAMIP, cRTP, and GRE	
Security	AES Link Encryption (256-bit) (optional)	
Traffic Engineering	Group QoS, QoS (Priority Queuing and CBWFQ), Strict Priority Queuing, Application Based QoS, Minimum CIR, CIR (Static and Dynamic), Rate Limiting	
Additional Features	Transmit Key Line	



PLEASE CONTACT US FOR MORE INFORMATION

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