

IDP 690

Two-Way Inmarsat IsatData Pro Service


GSatTrack
CERTIFIED



Introducing the IDP-690, a satellite communications terminal that uses the two-way Inmarsat IsatData Pro satellite service, for vessel management anywhere in the world.

The IDP-690 has been specifically engineered for maritime and low elevation-angle applications for vessel tracking and ship to shore messaging. Using GSatTrack software, the IDP-690 easily integrates with sensors and external devices, including Garmin fleet management.

The IDP-690 series of satellite terminals over the IsatData Pro satellite network offers customers a quick and smart way to connect people and assets anywhere in the world. The IDP-690 also integrates with Global Satellite USA's tracking service – GSatTrack.

Using GSatTrack with the IDP-690, boat owners and captains are able to track their tenders, jet skis and boats using one single application. Historical data, geofence, trips, movement and, speed can be monitored from anywhere in the world. Reports on all devices can be consolidated and produced in different languages and time zones via SMS or email.

The IsatData Pro features include:

- Integrated GPS for location-based services
- Environmentally-sealed enclosure for outdoor installations
- Low-power modes for battery-powered applications
- Peripheral interfaces for connecting to analog, digital and serial devices
- Serial interfaces for connectivity to RS485/J1708 and Modbus interfaces
- Programming capability and user tools for quick customization to meet business needs

The IDP-690 is compact and inconspicuous, measuring 10.1cm x12.6cm x 12.6cm. It has the capacity for high message capability, intelligent message routing and has been engineered for harsh environments and is protected from dust, water, vibration, shock and extreme weather.

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global
satellite
usa

IDP 600 Series

Two-Way Inmarsat IsatData Pro Service



IDP-680 Land Terminal



IDP-690 Maritime Terminal



IDP-690 C1D2 Terminal

The IDP 600 series terminals use the two-way Inmarsat IsatData Pro satellite service for remotely managing fixed and mobile assets anywhere in the world.

SATELLITE COMMUNICATION

Satellite Service	Two-way, IsatData Pro
Coverage	Global
From-Mobile Message	6,400 bytes
To-Mobile Message	10,000 bytes
Typical Latency	<15 sec, 100 bytes
Elevation Angle (IDP-680)	+20° to +90°
Elevation Angle (IDP-690)	-15° to +90°
Frequency	Rx:1525.0 to 1559.0 MHz Tx:1626.5 to 1660.5 MHz
EIRP (IDP-680/IDP-690)	7.0 dBW/5.0 dBW

GPS

Acquisition Time	Hot: 1 s; Cold: 27 s
Accuracy	2.5 m (Horizontal CEP)
Sensitivity	Acquisition: -147 dBm Tracking: -159 dBm

EXTERNAL INTERFACES

Inputs/Outputs	4 - Analog or Digital In/Out
Serial	1 - RS232, 1 - RS485

ELECTRICAL

Input Voltage	9 to 32V Load Dump Protection: +150V
Power Consumption (Typical@12VDC, 22 °C)	Receive : 8.3 mA GPS : 40 mA Transmit: 0.75 A Sleep: 100 µA

PROGRAMMING

Lua scripting engine with core services. SDK with GUI development tools available.

Core Services:	Geofence, Data Logger, Position Reporting
User Data Memory	2 MByte for Users services, data files including data logger

MASS

IDP-680/IDP-690	460 g
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ENVIRONMENTAL

Operating Temperature	-40 °C to +85 °C
Storage Temperature	-40 °C to +85 °C
Dust & Water Ingress	IP67
Vibration	SAE J1455 (Sec 4.9.4.2 fig 6-8) MIL-STD-810G (Sec 514.6)
Shock	MIL-STD-810G (Sec 516.6)
Load Dump Protection	SAE J1455 (Sec 4.13)

CERTIFICATION

Satellite	Inmarsat Type Approved
Other	CE Mark, FCC, IC, RoHS, Anatel, SRRC (IDP-690 only), MSS Russia

ORDERING CODES

SM201085-SXG	IDP-680, Side-mount
SM201085-BXG	IDP-680, Bottom-mount
SM201087-SXG	IDP-690, Side-mount
SM201087-BXG	IDP-690, Bottom-mount
SM201079-BxG	IDP-680, Bottom mount, C1D2
SM201080-BxG	IDP-690, Bottom mount, C1D2
KT931002-001	Development kit which includes airtime, training and support. Order terminal separately.

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