IDP 600 Series

Satellite Communication Terminals

IDP-680 Land Terminal

4.9 cm
12.6 cm
12.6 cm

IDP-690 Maritime Terminal

10.1 cm
12.6 cm
12.6 cm

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

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.

IsatData Pro is a trade mark of Inmarsat and is a service delivered by SkyWave Mobile Communications through the Inmarsat network.

Positioning technology provided by **u-blox**

HOW TO BUY

SkyWave mobile devices and satellite airtime services are available through a network of Solution Providers who offer turnkey solutions and industry expertise.

Visit us at SkyWave.com to learn more.

SkyWave
SATELLITE COMMUNICATIONS

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