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# IDP 600 Series

Satellite Communication Terminals



IDP-680 Land Terminal



IDP-690 Maritime 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	Warm: 16 sec; Cold: 36 sec
Accuracy	4 m (CEP)
Sensitivity	Acquisition: -136 dBm Tracking: -146 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
Average Power Consumption (Typical@12VDC, 22 °C)	Receive: 8.3 mA Receive with GPS: 60 mA Transmit: 0.75 A Sleep: 100 µA

#### PROGRAMMING

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

User Data Memory	3.5 MB
Geofencing	128 Polygons

#### 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, RoHS, Anatel

#### ORDERING CODES

SM201016-SXG	IDP-680, Side-mount
SM201016-BXG	IDP-680, Bottom-mount
SM201009-SXG	IDP-690, Side-mount
SM201009-BXG	IDP-690, Bottom-mount
KT931002-001	Development kit with free 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.

#### 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 MOBILE COMMUNICATIONS INC.

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