

# IDP 600 SERIES

## Satellite Communication Terminals

### Rugged Satellite terminals for reliably tracking vehicles, vessels and industrial fixed equipment

IDP 600 series terminals enable remote management of fixed and mobile industrial assets anywhere in the world. Whether managing trucks, fishing vessels, oil & gas and mining equipment, or remote installations and personnel, the IDP 600 series increases productivity, lowers operating costs and enables compliance with government regulations.

Fleet managers choose the IDP 600 series of terminals as a cost-effective global tracking solution for managing vehicles, vessels and protecting cargo over land and sea.

Fully customizable and environmentally sealed, IsatData Pro terminals are specifically designed to provide visibility and communications with people and equipment even in the world's harshest environments. IsatData Pro offers enhanced reliability and the ability to deliver up to 37 times more data in seconds – more than other satellite-based machine-to-machine (M2M) services in the market.

SkyWave-based solutions include applications, tools and unparalleled customer support designed to quicken time to market and reduce implementation costs. With SkyWave's competitive hardware and airtime pricing packages, businesses can accurately budget communication costs without roaming charges, and equip fleet and asset management groups regardless of location.

### SAMPLE APPLICATIONS

- **Vehicle, Rail & Trailer/Container Tracking:** Locate and protect cargo over land, rail and sea with cost-effective, global coverage.
- **Vessels & Buoys:** Lower operational costs, ensure regulatory compliance and enable vital ship-to-shore communications
- **Oil & Gas:** Remotely monitor and control pipelines, flow meters and enable workforce through SCADA monitoring systems.
- **Water & Utilities:** Cost effectively monitor remote water infrastructure, tanks and personnel.
- **Mining Assets:** Reliably connect fixed and mobile mining assets to central offices.
- **Public Sector:** Track and monitor mission-critical data, personnel and equipment in remote regions.



### Five Reasons To Choose IDP 600

#### 1. SEND MORE DATA, MORE QUICKLY

The IDP 600 series delivers data over the trusted and reliable IsatData Pro service, which delivers up to 37 times more data and has lifetime beyond 2023.

#### 2. TWO-WAY COMMUNICATION

Using the global Inmarsat constellation, IsatData Pro provides messaging capabilities to/from terminal.

#### 3. FEATURE RICH

Programming capabilities, panic button, text messaging and sensor ports for fuel, temperature and more allow for a robust tracking and monitoring solution.

#### 4. QUICK DEPLOYMENT

Easy to use Starter Kit, customer support and partner resources provide you with all the tools you need to start experiencing the benefits of SkyWave-based solutions.

#### 5. VALUABLE ADD-ONS

Device-level applications remove programming burden, enable out-of-the-box monitoring features and allow for quicker integration with existing fleet management and SCADA monitoring applications.

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## Technical Specifications

### SATELLITE COMMUNICATION

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

### GPS/GLONASS

- **Acquisition Time:** Hot: 1s; Cold: 29s/30s
- **Accuracy:** 2.5m/4.0m CEP-Horizontal
- **Sensitivity:** Acquisition: -148 dBm (IDP-680); -140dBm (IDP-690)/Tracking: -162 dBm (IDP-680); -158dBm (IDP-690)

### CERTIFICATION

- **Regulatory:** CE (R&TTE, RoHS 2), FCC, IC, Anatel compliant, MSS Russia, SRCC (IDP-690 only), RCM Mark, IEC 60945, C1D2
- **Others:** Inmarsat Type Approval, IP67

### ELECTRICAL

- **Input Voltage:** 9 to 32V; Load dump protection: +150V; SAE J1455 (Sec. 4.13)
- **Power consumption (Typical @12V DC, 22°C):**  
Average receive: 8.3 mA;  
Receive with GPS/GLONASS: 40 mA; Transmit: 0.75 A;  
Sleep: 100 µA

### Start Tracking Today!

The IDP 600 Development Kit has everything you need to start experiencing the benefits of SkyWave-enabled satellite tracking and monitoring solutions.



[www.skywave.com/TryIt](http://www.skywave.com/TryIt)

Positioning technology provided by



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### EXTERNAL INTERFACES

- **Inputs/Outputs:** 4 x Analog or Digital In/Out
- **Serial:** 1 x RS-232; 1 x RS-485
- **Accessories:** 1-Wire adapter via RS-232 port

### ENVIRONMENTAL

- **Operating 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)

### PROGRAMMING

Lua scripting engine with core services. SDK with GUI development tools available. Lua software application upgradable over the air (SOTA).

- **Core Services:** Geofence, Data Logger, Position Reporting
- **User Data Memory:** 2MB for Users Services, data files, including data logger
- **Optional, Configurable Device-Level Applications:**  
**Analytics Agent** - Notifications and reports for driver behaviour and vehicle/asset performance.  
**AVL Agent** - Facilitates integration of IDP terminals into fleet management solutions.  
**Garmin Dispatch Agent** - Tracking, navigation, driver communication and dispatch using Garmin devices.

### ORDERING CODES

- |                  |  |
|------------------|--|
| SM201205-SXG/BXG | IDP-680 (side/bottom)  |
| SM201206-SXG/BXG | IDP-690 (side/bottom)  |
| SM201291-BXG     | IDP-680 (bottom mount, C1D2)   |
| SM201292-BXG     | IDP-690 (bottom mount, C1D2)   |
| ST100325-001     | 1-Wire Adapter   |
| ST100231-001     | Development kit (Airtime, training and support included. Terminal purchased separately). |

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