# 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<br>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<br>Tracking: -146 dBm |

### EXTERNAL INTERFACES

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

### ELECTRICAL

| | |
|---|---|
| Input Voltage | 9 to 32V<br>Load Dump Protection: +150V |
| Average Power Consumption (Typical@12VDC, 22°C) | Receive: 8.3 mA<br>Receive with GPS: 60 mA<br>Transmit: 0.75 A<br>Sleep: 100 µA |

### PROGRAMMING

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

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|---|---|
| User Data Memory | 3.5 MB |
| Geofencing | 128 Polygons |

### 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)<br>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

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|---|---|
| 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.

**SkyWave**

SATELLITE COMMUNICATIONS

**inmarsat**