

IDP 700 SERIES

Satellite-Cellular Communication Terminals

Fully programmable, feature-rich dual-mode terminals for fleet management applications

The IDP-782 is an integrated, dual-mode communications terminal that delivers connectivity to assets in fleet management applications moving in and out of cellular range.

Fleet managers get the best of both worlds—lower cost data transmission in areas with cellular coverage, and reliable, always-on satellite communications over the two-way IsatData Pro satellite data service anytime the cellular network is unavailable—all from a single source provider.

The feature-rich, fully programmable IDP-782 delivers a flexible architecture that supports the development of custom applications for more complex solutions, and the use of SkyWave configurable software applications for quicker deployments.

SAMPLE APPLICATIONS

- **Transport Vehicles:** Gain complete visibility of vehicles moving in/out of cellular coverage, for complete tracking, text messaging, e-forms, and vehicle and cargo monitoring.
- **Vessels:** Leverage lower cost cellular for near-shore communications, and satellite for guaranteed and reliable offshore communications.
- **Oil & Gas Vehicles:** Track utility vehicles travelling in/out of remote areas to ensure timely delivery of goods and services.
- **Mining:** Track vehicle fleets traveling to/from remote mine sites, protect valuable heavy equipment and keep drivers safe with advanced driver behavior monitoring features.
- **SCADA Monitoring & Control:** Use the Modbus and sensor capabilities of the IDP-782 terminal for monitoring fixed oil & gas equipment. Receive power loss notifications and continue sending/receiving messages with built-in backup battery.



Five Reasons To Choose IDP-782

1. FLEXIBLE PROGRAMMING

Flexible platform supports the development of custom applications for specific customer requirements. Also configurable via SkyWave applications for quicker time to market.

2. SAVE ON AIRTIME

Automatically switch between cellular coverage when available and satellite in remote areas for significant cost savings.

3. BACKUP BATTERY

The IDP-782 features a backup battery option to enable reporting for up to 2.5 hours when no vehicle power is available.

4. FEATURE-RICH

Built-in 1-Wire, CANbus, accelerometer, dual SIM, sensor ports and more, allow for a robust tracking and monitoring solution. HSPA & GPRS hardware options available.

5. SECURITY

Improve driver, vehicle and cargo security with reliable, always-on backup satellite communications.

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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° (Remote antenna); -15° to +90° (Low elevation antenna)
- **Frequency:** Rx: 1525.0 to 1559.0 MHz; Tx: 1626.5 to 1660.5 MHz
- **EIRP:** <7.0 dBW

CELLULAR COMMUNICATION

- **GPRS Frequencies:** 850/900/1800/1900 MHz
- **HSPA Frequencies:** 800/850/900/1900/2100 MHz
- **SIM:** 3.3V/1.8V SIM
- **Security:** Jamming detection

GPS

- **Acquisition Time:** Hot: 1s; Cold: 27s
- **Accuracy:** 2.5m CEP-Horizontal
- **Sensitivity:** Acquisition: -148 dBm; Tracking: -159 dBm
- **Security:** GPS signal jamming detection

CERTIFICATION

- **Regulatory:** CE (R&TTE, RoHS 2), FCC, IC, PTCRB (HSPA only)
- **Other:** Inmarsat Type Approval

EXTERNAL INTERFACES

- **Inputs/Outputs:** 4 x Config. Analog/Digital Inputs/Outputs 2 x Dedicated Outputs (sink-ground)
- **Serial:** 2 x RS-232; 1 x RS-485; 1-CAN bus; 1-Wire
- **Accelerometer:** 3 Axis

Start Tracking Today!

The IDP-782 Starter Kit has everything you need to experience the capabilities of your IsatData Pro terminal.

The kit includes an IDP-782 terminal, a remote satellite antenna, sample cables, and basic peripherals in a pre-connected single box to help you experience the benefits of a SkyWave-enabled tracking and monitoring solution quickly and hassle-free.

www.skywave.com/IDP-782

Positioning technology provided by 

ELECTRICAL

- **Input Voltage:** 9 to 32V; Load dump protection: +150V; SAE J1455 (Sec. 4.13);
- **Battery backup:** >2.5 hrs operation with 1min cellular reporting or 10 min satellite reporting

ENVIRONMENTAL

- **Operating Temperature:** Transceiver and Antenna: -40°C to +85°C; Back-up Battery: -10°C to +60°C;
- **Dust & Water Ingress:** Transceiver: IP40 (IP 54 with optional shroud); Satellite Antenna: IP67
- **Vibration:** SAE J1455 (Sec 4.9.4.2 fig 6-8); MIL-STD-810G
- **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).

- **Geofencing:** 128 Polygons
- **Data Logger:** 50,000 Position Reports; Auto-upload in cellular coverage
- **Optional, Configurable Device-Level Applications:**
 - AVL Agent** - Facilitates integration of IDP terminals into fleet management solutions.
 - Garmin Dispatch Agent** - Tracking, navigation, driver communication and dispatch using Garmin devices.
 - J1939 Agent** - Vehicle CAN bus connectivity for monitoring driver behavior and vehicle/asset performance.
 - ARC Agent** - Asset alarms, periodic reports and remote control.
 - Analytics Agent** - Notifications and reports for driver behaviour and vehicle/asset performance.

ORDERING CODES

SM201329-GNU	IDP-782 Transceiver w/ cellular antenna (GPRS)
SM201329-GBU	IDP-782 Transceiver w/ cellular antenna (GPRS, Battery)
SM201329-HNU	IDP-782 Transceiver w/ cellular antenna (HSPA)
SM201329-HBU	IDP-782 Transceiver w/ cellular antenna (HSPA, Battery)
ST901065-AFA	IDP Remote antenna
ST901066-AFA	IDP Low elevation remote antenna
SM201361-001	IDP-782 Starter Kit (USA)
SM201361-002	IDP-782 Starter Kit (Rest of World)
SM201361-003	IDP-782 Starter Kit (Canada)
ST100340-001	IDP-782 Development Kit

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