

# IDP-782

## Cellular and satellite-cellular terminals for fleet management applications

The fully programmable, feature-rich IDP-782 delivers connectivity to assets over cellular and satellite networks.



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 network in remote locations—all from a single-source provider.

As part of a comprehensive fleet management solution, the IDP-782 can be used in security applications to track vehicle location, driver behavior, for text messaging, e-forms and more. This device can also be used in SCADA applications to monitor and control fixed oil and gas equipment.

### Flexible Programming

IDP-782 supports the development of custom applications for more complex solutions as well as configurable software applications for simpler deployments and quicker time to market.

### Airtime savings

Use cellular or automatically switch between cellular and satellite connectivity for significant cost savings.

### Continuous operation

The IDP-782 features a backup battery option that enables reporting for up to 12 hours when no vehicle power is available.

### Feature-rich

Standard features include built-in 1-Wire, CANbus, accelerometer, dual SIM and sensor ports. The device also supports HSPA/GPRS.

### Vehicle and driver safety

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

### Get started

From first message to complete solution: get up and running—quickly! The IDP-782 Starter Kit includes the hardware, software development tools, documentation, accessories and support that you need to evaluate your IDP-782.

**Cellular and satellite-cellular options**

**Flexible programming environment**

**Low cost of ownership**

**Feature-rich and versatile**

## 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: 1 second; cold: 27 seconds
- 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

## ELECTRICAL

- Input voltage: 9 to 32V; load dump protection: +150V; SAE J1455 (Sec. 4.13);

- Battery backup: >12 hours operation with 1-minute cellular reporting or 10-minute satellite reporting

## ENVIRONMENTAL

- Operating temperature: transceiver and antenna: -40°C to +85°C; back-up battery: -10°C to +60°C;
- Dust and water ingress: transceiver: IP40 (IP65 with optional shroud); satellite antenna: IP67; GPS 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.

**STARTER KIT: Scan the QR code for complete details of the IDP-782 Starter Kit. It's everything you need to evaluate your IDP-782 in one box.**



## Order codes and related products

- SM201329-HNU** IDP-782 Transceiver with cellular antenna (HSPA)
- SM201329-HBU** IDP-782 Transceiver with 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

**ST100382** IDP-782 terminal shroud, IP65

**SM201455-HBA** IDP-782 cellular, battery, AT&T

**SM201455-HNA** IDP-782 cellular, AT&T

**SM201455-HBV** IDP-782 cellular, battery, Vodafone

**SM201455-HNV** IDP-782 cellular, Vodafone

**ST100445-001** IDP-782 cellular antenna kit

**ST100446-001** IDP-782 cellular external gps/gsm combo antenna

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