ST 6100

The next generation satellite terminal—more powerful, more versatile, more coverage.

Reliably track, monitor and control assets in some of the word's most isolated regions.

Hardware
Connectivity
Options

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: -5° to +90°
- Frequency: Rx: 1518.0 to 1559.0 MHz;
  Tx: 1626.5 to 1660.5 MHz;
  1668.0 to 1675.0 MHz
- EIRP: <7.0 dBW

GPS/GLONASS/BEIDOU

- Acquisition time: Hot: 1 second; Cold: 29/30/36 seconds
- Accuracy: 2.0m CEP
- Sensitivity:
  - »»Acquisition: -148 dBm
  - »»Tracking: -163 dBm

CERTIFICATION

- Regulatory: CE, FCC, IC, Anatel, RCM Mark, IEC 60945, C1D2, SRRC, IFT, ICASA, FFA;Pending: MSS Russia
- Others: Inmarsat Type Approval, IP67

ELECTRICAL

- Input voltage: 9 to 32V; Load dump protection: +150V; SAE J1455 (Sec. 4.13)
- Power consumption (typical average @12V DC, 22°C):
- »» IDP Receive: 65 mA;
- »» GPS/Glonass/Beidou Receive: 22 mA;
- »» Transmit: 0.65 A;
- »» Sleep: 100 µA

DIMENSIONS

- 12.6 cm x 12.6 cm x 4.9 c

EXTERNAL INTERFACES

- Inputs/outputs: 4 analog or digital in/out
- Serial: RS-232; RS-485

ENVIRONMENTAL

- Operating temperature: -40°C to +85°C
- Dust and 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, accelerometer events, serial communications.
- Optional configurable device-level applications, including:
- »» Analytics Agent - Notifications and reports for driver behaviour and vehicle/asset performance.
- »» AVL Agent - Facilitates integration of ST 6100 terminals into fleet management solutions.
- »» Garmin Dispatch Agent - Tracking, navigation, driver communication and dispatch using Garmin devices.
- »» Garmin FMI Agent – Fleet management support for two-way text messaging, stops, driver ID, hours of service, file-transfer, custom forms, and speeding alerts

ACCELEROMETER

- 3-axis accelerometer

MEMORY

- Lua Code RAM: 4MB
- Lua Code NVM: 6M

OPTIONS

- Side or bottom connector variant

ORDERING CODES/RELATED PRODUCTS

ST6100-SXX ST 6100 Terminal, Side Connector
ST6100-BXX ST 6100 Terminal, Bottom Connector
ST6100-BXXC ST 6100 Terminal, Bottom Connector, C1D2
ST100679-001 ST 6100 Development Kit
ST100030-001 Mating Cable Connector Kit with Solder Cups

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.

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 approva

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

ORDERING CODES/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

IDP 800 SERIES
Satellite Communication Terminals

IDP 800 TERMINAL

2,5 cm |

14,2 cm

43,2 cm

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° (Integrated or remoteantenna); -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

GPS/GLONASS

• Acquisition Time: Hot: 1s; Cold: 29s/30s• Accuracy: 2.5m/4.0m CEP-Horizontal
• Sensitivity (Tracking): -162 dBm/-158 dBm

CERTIFICATION

• Regulatory: CE (R&TTE, RoHS 2), FCC, IC, Inmarsat Type
• Approval
• Others: IP67

ELECTRICAL

• Input Voltage: 9 to 32V; Load dump protection: +150V; SAEJ1455 (Sec. 4.13); Auto Switchover
• 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;
　»»Power off: 12 µA
• Battery Cells: 12 AA Cells
• Battery Chemistry: Rechargeable: NiMH;Nonrechargeable: LiFeS2
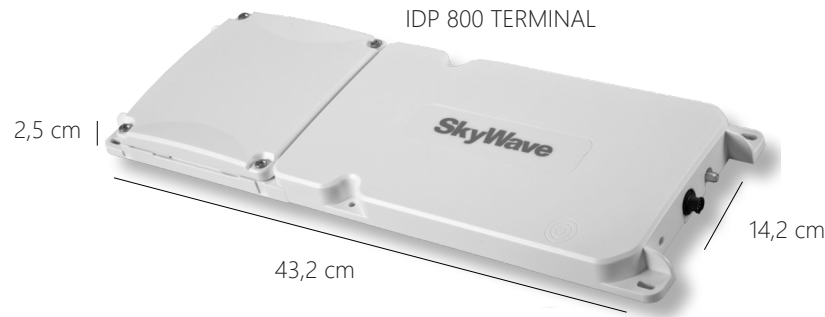
CHARGING

• Current: 1.33 A (at 12V

DIMENSIONS

• IDP 800: 43.2 cm x 14.7 cm x 2.5 cm
• IDP Remote Antenna: 12.6 cm x 9.3 cm x 7.4 cm
• IDP Remote Antenna Low Elevation: 12.6 cm x 9.3 cm x2.5 cm

MASS

• With batteries: 1.3 Kg (with integrated antenna

EXTERNAL INTERFACES

• Inputs/Outputs: 3 x Analog or Digital In/Out
• Serial: 1 x RS-232
• Accessories: 1-Wire adapter via RS-232 port

ENVIRONMENTAL

• Operating Temperature: -40°C to +85°C (batteries notincluded) ; -40°C to +60°C (Non-rechargeable) ; -10°C to+50°C (Rechargeable)
• 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 GUIdevelopment tools available. Lua software applicationupgradable over the air (SOTA).
• User Data Memory: 3.5 MB
• Geofencing: 128 Polygons
• Data Logger: 50,000 Position Reports
• Optional, Configurable Device-Level Applications:
　»» Analytics Agent - Notifications and reports for driver behaviour and vehicle/asset performance.
　»» AVL Agent - Faciliates integration of IDP terminals into fleet management solutions.
　»» Garmin Dispatch Agent - Tracking, navigation, driver communication and dispatch using Garmin devices

ORDERING CODES/RELATED PRODUCTS

SM201225 - CXX Integrated AntennaBatteries: Not Included/Non-Rechargeable
SM201225 - DXX Integrated AntennaBatteries: Included/Non-Rechargeable
SM201226 - CXX Integrated AntennaBatteries: Not Included/Rechargeable
SM201226 - DXX Integrated AntennaBatteries: Included/Rechargeable
SM201227 - CXX Remote AntennaBatteries: Not Included/Non-Rechargeable
SM201227 - DXX Remote AntennaBatteries: Included/Non-Rechargeable
SM201228 - CXX Remote AntennaBatteries: Not Included/Rechargeable
SM201228 - DXX Remote AntennaBatteries: Included/Rechargeable
ST100325 - 001 1-Wire Adapter
ST100231 - 001 Development Kit (Airtime, training and support included. Terminal purchased separately)

START TRACKING
TODAY!

The IDP - 800 development kit has everything you need to start experiencing the benefits of Skywave - enabled satellite tracking an monitoring solution.

AISSAT
PRIME

PORT**A**PRIME AISSAT

SAT**X**PRIME AISSAT

M2**O**PRIME AISSAT

PM**I**PRIME AISSAT

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