

IDP 780

Two-Way Inmarsat IsatData Pro Service



The IDP-780 flex terminal is equipped with both IsatData Pro satellite and cellular modems to allow asset owners to locate, communicate and remotely manage their assets anywhere, anytime.

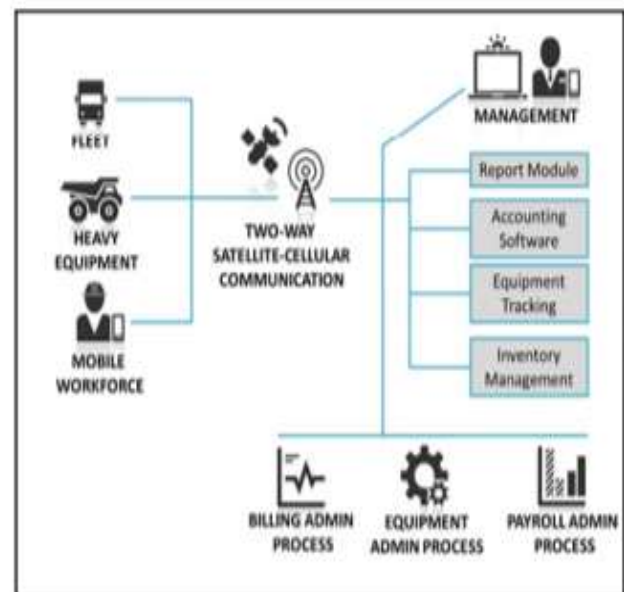
integrated satellite-cellular communication for workforce automation and other intelligent business services.

Continuous coverage for critical information:

The IDP-780 provides real-time connectivity extending outside GSM coverage.

Optimizing performance at greater cost efficiencies:

With the ability to provide richer information in M2M applications, businesses are able to share more data across diverse operations via emails, electronic forms and workflow documents in real time and at a lower cost.



FEATURES

Communication

- Satellite service for exchanging files, forms, telemetry information and messaging - Two-way satellite IsatData Pro
- Integrated cellular GPRS service

Satellite Messaging

- Maximum from-mobile message - 6,400 bytes
- Maximum to-mobile message - 10,000 bytes

Uses

- Asset types - People & Mobile
- Sample Applications - Fleet management, electronic documents, in-cab messaging, logistics

Hardware Features

- Remote satellite antenna for discreet installation in vehicle

Peripheral Interfaces

- Analog, Digital, RS232 Sensor ports to connect to pressure sensors, volumetric meters, or text messaging terminals
- RS485 interface to connect to Modbus devices
- CANbus interface to monitor information from the J1939 vehicle data bus

Other Features

- Programming tools to quickly customize behavior, geofences and power modes
- Over-the-air programming capabilities to meet shifting business needs and reduce travel costs.

IDP 780

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IDP-780a Dual-mode Satellite-Cellular Terminal



Remote Satellite Antenna

The IDP-780a terminal is equipped with both IsatData Pro satellite and cellular modem to allow asset owners to locate, communicate and remotely manage their assets anywhere, anytime.

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	+20 to +90°
Frequency	Rx:1525.0 to 1559.0 MHz Tx:1626.5 to 1660.5 MHz
EIRP	< 7.0 dBW

GPS

Acquisition Time	Warm/Cold: 36 s Hot: 1 s
Sensitivity	Tracking: -159 dBm Reacquisition: -159 dBm
Accuracy	2.5 m CEP
Security	GPS signal jamming detection

CELLULAR COMMUNICATION

Service	GPRS
Frequency	850/900/1800/1900 MHz
SIM	3.3V /1.8V SIM Dual-SIM capable Tamper proof access

EXTERNAL INTERFACES

Inputs/Outputs	4 – Configurable analog / digital in (active low or high) 7 – Dedicated digital in (active low) 1 – Ignition detection in 5 – Dedicated digital out (sink to ground)
Serial	2 – RS232 1 – RS485
Vehicle Diagnostics	1 – CANbus

ELECTRICAL

Input Voltage	+7 -48V SAE J1455 load dump protection
Mating Connector	Two Tyco Elect. MULTILOCK White connector PN (316371 -1) Grey connector PN (316372 -6) Contacts PN (175265 -1)

PROGRAMMING

Lua application framework with core services. SDK with GUI development tools available.	
Geofencing	128 polygons
Data Logger	50,000 positions Auto upload in cellular coverage

ENVIRONMENTAL (PENDING)

Operating Temperature	-40°C to +85°C
Storage Temperature	-40°C to +85°C
Dust & Water Ingress	Remote Satellite Antenna: IP67

CERTIFICATION (PENDING)

Satellite	Inmarsat Type Approval
Regulatory	CE Mark, RoHS

ORDERING CODES

Contact your account representative.

IsatData Pro is a trade mark of Inmarsat and is a service delivered by SkyWave Mobile Communications through the Inmarsat network.

Product details subject to change