

IDP-780 *flex*

Satellite-Cellular Communication Terminal



IDP-780 *flex* dual-mode satellite-cellular terminal with satellite and GPRS antenna attached

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.

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	Hot: 1 s Cold: 27 s
Sensitivity	Acquisition: -147 dBm Tracking: -159 dBm
Accuracy	2.5 m (Horizontal CEP)
Security	GPS signal jamming detection

CELLULAR COMMUNICATION

Service	GPRS
Frequency	850/900/1800/1900 MHz
SIM	3.3V /1.8V SIM

EXTERNAL INTERFACES

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

ELECTRICAL

Input Voltage	+9-48V SAE J1455 load dump protection
Mating Connector	Two Tyco Elect. MULTILOCK a) White connector PN (316371-1) b) 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	-25 °C to +85 °C (satellite) -25 °C to +75 °C (cellular)
Storage Temperature	-40 °C to +85 °C
Dust & Water Ingress	Remote Satellite Antenna: IP67 Terminal: IP54 (with installed optional cable shroud)

CERTIFICATION

Satellite	Inmarsat Type Approval
Regulatory (pending)	CE Mark, FCC, IC, RoHS

ORDERING CODES

SM201094-C5N	IDP-780 <i>flex</i> , (with 5m side-mount satellite antenna)
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Product details subject to change.

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

HOW TO BUY

SkyWave mobile devices and satellite airtime services are available through a network of Solution Providers who offer turnkey solutions and industry expertise.

Visit us at SkyWave.com to learn more.

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