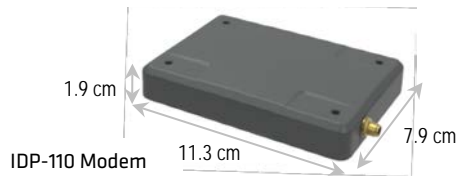


# IDP 100 Series

## Satellite Communication Modems



### Model Options



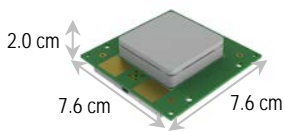
IDP Remote Low Profile Antenna

**IDP-180**



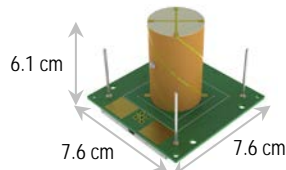
IDP Low Elevation Remote Antenna

**IDP-190**



IDP Unpackaged Low Profile Antenna

**IDP-180**



IDP Low Elevation Unpackaged Antenna

**IDP-190**

The IDP 100 series are designed to be embedded into larger systems and provide a communication link to track, monitor and control industrial vehicles, vessels and equipment anywhere in the world.

#### 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 (IDP-180)	+20° to +90°
Elevation Angle (IDP-190)	-15° to +90°
Frequency	Rx:1525.0 to 1559.0 MHz Tx:1626.5 to 1660.5 MHz
EIRP (IDP-180, IDP-190)	7.0 dBW, 5.0 dBW

#### GPS

Acquisition Time	Warm: 8 sec; Cold: 36 sec
Accuracy	2.5 m (CEP)
Sensitivity	Acquisition: -136 dBm Tracking: -146 dBm

#### EXTERNAL INTERFACES

Serial	Serial CMOS/TTL compatible
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#### ELECTRICAL

Input Voltage	3.0V, 3.3/6.3V input
Power Consumption (Typical @ 22°C, 3.3/6.3V)	Receive: 68 mA, 3.3V Receive with GPS: 125 mA, 3.3V Transmit: 1.1 A, 6.3V Sleep: 25 µA, 3.3V

#### PROGRAMMING

AT command set.

#### ENVIRONMENTAL

Operating Temperature	-40 °C to +85 °C
Vibration	SAE J1455 (Sec 4.9, 4.2) MIL-STD-810G (Sec 514.6)
Shock	MIL-STD-810G (Sec 516.6)

#### CERTIFICATION

Satellite	Inmarsat Type Approved
Other	CE Mark, FCC, Anatel compliant, RoHS

#### ORDERING CODES

ST901033-XXG	IDP-110 Modem
ST901065-ASA	IDP Remote low profile antenna
ST901066-ASA	IDP Low elevation remote antenna
ST100235-00X	IDP Unpackaged low profile antenna
ST100242-00X	IDP Low elevation unpackaged antenna
ST100233-001	IDP 100 Series Development Kit

The IDP 100 series is available as IDP-180/IDP-190. The IDP-180 is the IDP-110 with a low profile antenna and the IDP-190 is the IDP-110 with a low elevation antenna. Both antennas available in packaged/unpackaged forms.

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

Positioning technology provided by u-blox

#### 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](http://SkyWave.com) to learn more.

DSE051613



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SATELLITE COMMUNICATIONS

