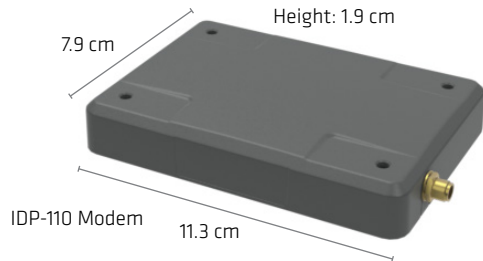
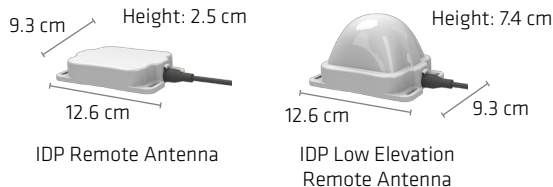


IDP 100 Series

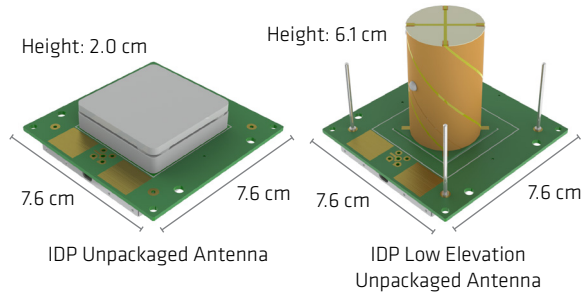
Satellite Communication Modems



Packaged Antenna Options



Unpackaged Antenna Options



The IDP 100 series modems 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/GLONASS

Acquisition Time	Hot: 1 s; Cold: 29s/30s
Accuracy	2.5 m/4.0m (Horizontal CEP)
Sensitivity	Acquisition: -148 dBm/-140 dBm Tracking: -162 dBm/-158 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 fig. 6-8) MIL-STD-810G (Sec 514.6)
Shock	MIL-STD-810G (Sec 516.6)

CERTIFICATION

Satellite	Inmarsat Type Approved
Regulatory	CE Mark, FCC, Anatel Compliant, RoHS, IC

ORDERING CODES

ST100252-XXG	IDP-110 Board level shielded
ST100255-XXG	IDP-110 Modem overshielded
ST901065-ASA	IDP Remote antenna
ST901066-ASA	IDP Low elevation remote antenna
ST100235-001	IDP Unpackaged antenna
ST100242-001	IDP Low elevation unpackaged antenna
ST100233-001	IDP 100 Series Development Kit

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 ublox

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.

DS100E-AA

SKYWAVE MOBILE COMMUNICATIONS INC.

750 Palladium Drive
Suite 368, Ottawa, Ontario
K2V 1C7 CANADA

T + 1.613.836.4844
F + 1.613.836.1088
SKYWAVE.COM

SkyWave

inmarsat