

inmarsat



IDP - 690

Vessel Tracking

GPS TRACKING

Simple

Displays the selected vessel tracking within a certain time period

Real time

Display View Report

More Information : WWW.MONITORKAPAL.COM

Complete

Displays detailed information on each ship traveling :

- * Ship name
- * jack
- * vessel type
- * Coordinates (latitude and longitude)
- * Direction of the ship
- * speed
- * Date and time of update

Smart

Displays the coordinates of the ship in the format Folder



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Open : <http://www.monitorkapal.com>



View Route

the position of the vessel, etc



PT. MITRA SARANA UTAMA INDONESIA

www.monitorkapal.com / www.mitsui.co.id



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GPS TRACKING

Vessel Tracking

BUSINESS PROCESS VESSEL MONITORING

1. Tug Boat With IDP - 690



2. Immarsat Satellite



3. Skywave Gateway



4. Skywave Tracking Server



5. www.monitorkapal.com



inmarsat IDP - 690

PHYSICAL

Size : 12.6 cm (L) x 12.6cm (W) x 10.1 cm (H)

SATELITE COMMUNICATION

Satellite Service : Two way, IsatData Pro
Coverage : Global
Typical Latency : < 15 Sec, 100 bytes

GPS/GLONASS

Acquisition Time : Hot: 1 s; Cold: 29 s/30 s
Accuracy : 2.5 m/ 4.0 m (Horizontal CEP)
Sensitivity : Acquisition : 148 dBm/ 140 dBm
Tracking : 162 dbm/ 158 dbm

EXTERNAL

Inputs/Outputs : 4 - analog or Digital in/out
Serial : 1 - RS232, 1 - RS485

ELECTRICAL

Input Voltage : +9 to 32V Load Dump Protection +150V
Power : Receive : 8.3 mA
Consumption : GPS : 40 mA
Transmit : 0.75 A
Sleep 100 pA

CERTIFICATION

Satellite : Inmarsat Type Approved
Other : CE Mark, FCC, IC, RoHS, Anatel
Compliant, SRRC, MSS Russia, RCM Mark,
IEC 609-45, IP67 C1D2



1. GPS Receiver
2. Integrated Satellite Model
3. Omni - Directional Antenna
4. Serial Port Communications (RS-232, RS-485)
5. Environmental Protection (IP67, -40 C to 85 C operation)
6. Discrete digital/ analog input/ output feeds for sensors and actuators
7. Embedded programmable microcontrollers with customizable applications
8. Flexible power source (9-32v DC, transient and reverse-polarity protected)

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IDP-680 Land Terminal



IDP-690 Maritime Terminal



IDP-680 C102 Terminal



IDP-690 C102 Terminal

The IDP 600 series terminals use the two-way Inmarsat IsatData Pro satellite service for remotely managing fixed and mobile assets 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-680)	+20° to +90°
Elevation Angle (IDP-690)	-15° to +90°
Frequency	Rx: 1525.0 to 1559.0 MHz Tx: 1626.5 to 1660.5 MHz
EIRP (IDP-680/IDP-690)	7.0 dBW/5.0 dBW

GPS

Acquisition Time	Hot: 1 s; Cold: 27 s
Accuracy	2.5 m (Horizontal CEP)
Sensitivity	Acquisition: -147 dBm Tracking: -159 dBm

EXTERNAL INTERFACES

Inputs/Outputs	4 - Analog or Digital In/Out
Serial	1 - RS232, 1 - RS485

ELECTRICAL

Input Voltage	+9 to 32V Load Dump Protection: +150V
Power Consumption (Typical@12VDC, 22°C)	Receive: 8.3 mA GPS: 40 mA Transmit: 0.75 A Sleep: 100 µA

PROGRAMMING

Lua scripting engine with core services. SDK with GUI development tools available.

Core Services:	Geofence, Data Logger, Position Reporting
User Data Memory	2 MByte for Users services, data files including data logger

ENVIRONMENTAL

Operating Temperature	-40 °C to +85 °C
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)
Load Dump Protection	SAE J1455 (Sec 4.13)

CERTIFICATION

Satellite	Inmarsat Type Approved
Other	CE Mark, FCC, IC, RoHS, Anatel, compliant, SRRC (IDP-690 only), MSS Russia

ORDERING CODES

SM201085-SXG/BXG	IDP-680 (side/bottom)
SM201087-SXG/BXG	IDP-690 (side/bottom)
SM201079-BXG	IDP-680, Bottom mount, C102
SM201080-BXG	IDP-690, Bottom mount, C102

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



Where to buy:

PT. MITRA SARANA UTAMA INDONESIA

Email : andi@mitsui.co.id

www.monitorkapal.com / www.mitsui.co.id