

SAT-IDP

Next-Generation Satellite Terminal

The SAT-IDP satellite terminal from Honeywell Global Tracking is a next-generation IDP compliant multi-purpose satellite terminal for tracking and monitoring high-value assets like vehicles, vessels, fixed assets and remote data communication.



Once an asset has been equipped with a SAT-IDP terminal and deployed in the field, the device automatically selects the most appropriate satellite and transmits its location and any additional message data via secure systems.

The SAT-IDP terminal is powered by the asset and can be used in virtually all environments. It is favored in remote regions where terrestrial communication can not be relied upon. It is same in size as its predecessor SAT-401. It can be programmed to send and receive customized data from internal and external sensors – including temperature, humidity, vibration and shock.

Like many of Honeywell Global Tracking's terminals, the SAT-IDP uses the Inmarsat constellation of satellites and the IDP standard. This connectivity method delivers an affordable and reliable direct-to-desktop information service with fast and easy-to-use message handling.

The SAT-IDP terminal has six fully configurable inputs/outputs for sensor monitoring, and one open drain output suitable for driving relays and other indicators. The data-logging function includes GNSS positions, transmissions and data for more than 20,000 entries which are accessible locally via the serial port and Bluetooth (BLE). All transmissions are logged with a time stamp.

FEATURES AND BENEFITS



Multiple I/O Ports: Allows connected external sensors to report additional data, e.g., speed, tire pressure, and fuel consumption; ideal for fleet management applications.



Global Coverage: Offers secure satellite connectivity worldwide.



Inmarsat and GNSS Connectivity: Tracks, monitors and communicates with mobile and fixed assets anywhere in the world.



Affordable and Reliable: Field-proven and cost-effective tracking solution for a wide range of applications.



Optional: SAT-IDP terminal with side entry Bulgin connector. Side entry SAT-IDP-SC. Includes 20cm cable with Bulgin connector and magnetic feet.

SAT-IDP Technical Specifications

PHYSICAL

Dimensions: 118mm x 37mm
(4.64" x 1.45")

Weight: 240g (12.0 oz) (excluding cable)

Connector: 12-way Bulgin

ENVIRONMENTAL

Operating Temperature: -40°C to +70°C
(-40°F to +158°F)

Humidity: ≤ 95% @ +40°C (+104°F)

Vibration & Shock: Meets Inmarsat-D requirements

IP Rating: IP66

POWER (TYPICAL)

Sleep: 10 mW

Receive: 2.7W (incl. GNSS)

Transmit: 9.6W

Power Supply Voltage: 9.6V to 32V
'smoothed' DC

INTERFACES:

Serial Interface: Asynchronous serial RS232

Baud Rate: 4800 or 9600 bps &
115.2kbps while software updates

Parity/Data Bits/Stop Bits: N, 8, 1

BLE: Bluetooth 4.2 low energy compliant

Configurable Inputs/Outputs: Five

Open Drain Output: 250mA max. sink current

SATELLITE CONNECTIVITY

Transmitter:

EIPR: 0 - 7 dBW

TX Burst duration: 0.5 Sec, 1 Sec

Message length: 6400 bytes

Receiver: Message length: 10,000 bytes

Elevation angle: 0° - 90°

Frequency range:

Transmit: 1626.5 MHz to 1675 MHz

Receive: 1518 MHz to 1559 MHz
GNSS support with GPS, GLONASS,
GALILEO and Beidou

Message Latencies:

Transmit: 100 bytes: 20 sec typical

1000 bytes: 45 sec typical

Receive: 100 bytes: 12 sec typical

1000 bytes: 70 sec typical

GNSS: Typical position accuracies
(SA off): 2.5m (CEP 2D)

CAPABILITIES/APPLICATIONS

Custom Features: New Advanced scripting capabilities enable custom features and functionality.

Geofencing (Via ViewPoint): Alert areas, Safe Areas, Route corridors, Curfews, Waypoints, Checkpoints, Overdue and more.

Third-Party Connectivity: Can be integrated with existing ERP systems.

REGULATORY APPROVALS

Inmarsat Type Approval: Yes

FCC: Yes

CE: Yes

ANATEL for Brazil: Yes

ARPCE for Algeria: Yes

CITC for Kingdom of Saudi Arabia: Yes

SIRIM for Malaysia: Yes

ICASA and NRCS LOA for South Africa: Yes

For more information

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WHAT
WE
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