



mobile automation terminal

imt.14



- A Single Unit With Internal GSM and GPS Antennas
- Internal Li-ion Back-up Battery
- 5 X Digital Input, 3 X Analog Input
 - 1 X Km Pulse Input, 1 X Ignition Input
 - 3 X Digital Output, 2 X RS232, 2 X Sensor (I2C), Can-Bus Extension Ports
- Tamper Detection
- Integrated Motion Sensor (G-Sensor)
- 50 Channel GPS receiver and Assist GPS
- Firmware Over the Air (FOTA)

TECHNICAL SPECIFICATIONS

Operating Temperature	-25°C to +75°C ¹	GPS Receiver	<ul style="list-style-type: none"> • Receiver Type <ul style="list-style-type: none"> • 50 Channel • Frequency: L1 • Signals: GPS C/A Code • Configuration <ul style="list-style-type: none"> • Time Pulse: 0,25Hz to 1kHz • Navigation Update Rate: up to 5Hz • Time-To-First-Fix² <ul style="list-style-type: none"> • Cold Start: 28 s • Warm Start: 28 s • Hot Start: 1 s • Aided Starts³: 1 s • Sensitivity⁴ <ul style="list-style-type: none"> • Tracking & Navigation: -160 dBm • Reacquisition: -160 dBm • Cold Start: -147 dBm • Accuracy <ul style="list-style-type: none"> • Horizontal Position⁵: < 2.5 m Autonomous RMS 99% < 2.0 m SBAS • Velocity⁶: 0.1m/s • Heading⁷: 0.5 degrees • Limits <ul style="list-style-type: none"> • Acceleration: 4 g • Altitude⁷: 50000 m • Velocity⁷: 500 m/s 	I/O Ports	<ul style="list-style-type: none"> • 5 x Digital Input • 3 x Analog Input • 1 x km Pulse Input • 1 x Ignition Input • 3 x Digital Output • 2 x RS232 • 2 x Sensor (I2C)
Dimensions	103mm x 68,5mm x 19 mm			Sensors	<ul style="list-style-type: none"> • G-Sensor (for motion and acceleration detection) • Temperature (Internal)
Weight	105gr			LED Indicators (2 Colors)	<ul style="list-style-type: none"> • GSM • GPS
Battery Type	Li-ion 900mAh			Firmware Update	Firmware Over the Air (FOTA)
Data Storage	64Mb			Certificates	 
Power	12 – 24 VDC 50 – 30 mA (average) 225 – 125 mA (peak)				
GSM Antenna	Internal				
GSM Modem	<ul style="list-style-type: none"> • 4 Band EGSM 850 / 900 / 1800 / 1900 MHz • Output Power: <ul style="list-style-type: none"> • Class 4 (2W) @ 850 / 900 MHz • Class 1 (1W) @ 1800 / 1900 MHz • Sensitivity: <ul style="list-style-type: none"> • -107 dBm @ 850 / 900 MHz • -106 dBm @ 1800 / 1900 MHz • GPRS: <ul style="list-style-type: none"> • GPRS class 10 • Mobile station class B • Coding scheme 1 to 4 • PBCCH Support • Superior echo cancellation & noise reduction 				
GPS Antenna	Internal				

¹ When used without battery.

² All satellites at -130 dBm

³ Dependent on aiding data connection speed and latency

⁴ Demonstrated with a good active antenna

⁵ CEP, 50%, 24 hours static, -130dBm, SEP: <3.5m

⁶ 50% @ 30 m/s

⁷ Assuming Airborne <4g platform.

