

imt.X55

MOBILE AUTOMATION TERMINAL



arvento
Mobile Systems

imt.X55

- Unique durability
- Advanced technology
- OLED Screen Multi-Function Display
- Magnetic Field Detector that senses tampering
- Magnetic mount system
- 28.800 mAh Li-Ion battery with up to 4 years of battery life
- UL-94 Flammability Standard
- Water-proof
- Shock and impact resistant
- Resistant to the most extreme weather conditions
- The most advanced protection class in the world
IP-69K STANDARD
- with 2G/4G options
- Industrial connectors

TECHNICAL SPECIFICATIONS

- Operating Temperature:** -15°C to +55°C
Dimensions: 165 mm X 95 mm X 50 mm
Weight: 850 g
Data Storage: 16 MB
Battery Type: Li-Polymer 28800mAh
Connections: Magnetic Charging Connector
Cellular and Wireless:
 2G GSM, 4G GSM (optional)
GSM Antenna: Built-in
GSM Antenna:
 › Dual-Band EGSM 900/1800 MHz
 › **Transmitter output power:**
 Class 4 (33 dBm) @ 900 MHz
 Class 1 (30 dBm) @ 1800 MHz
 › **Receiver input sensitivity:**
 -109 dBm @ 900 MHz
 -109 dBm @ 1800 MHz
 › **GPRS**
 GPRS multi-slot class 10
 Mobile Station Class B
 Coding scheme CS1-CS4
 PBCCH Support
 SMS Support
 › Echo Suppression and Noise Reduction
 › Micro SIM Card Port

- LTE Modem (optional):**
 › 3 Band LTE 800/1800/2600 MHz
 › **Transmitter output power:**
 Class 3 (23 dBm)
 › **Receiver input sensitivity:**
 -105 dBm @ 800 MHz
 -111 dBm @ 1800 MHz
 -104 dBm @ 2600 MHz
 › **LTE Cat 1 (10Mbit/s DL, 5 Mbit/s UL)**
 3GPP Release 9
 Long Term Evolution (LTE)
 Evolved UTRA (E-UTRA)
 Frequency Division Duplex (FDD)
GPS Antenna: Built-in
GPS Receiver:
 › SBAS L1 C/A: WAAS, EGNOS, MSAS, GAGAN
 › GNSS Support
 › AGPS Support
 › **Accuracy:** GPS 2,5 m, GPS+SBAS 2.0 m
 › **Receiver Type:**
 Number of Channels: 72
 Signals: GPS/QZSS/SBAS L1 C/A,
 GLONASS L10F, Beidou B1 I, Galileo E1 B/C,
 WAAS, EGNOS, MSAS, GAGAN
 › **Configuration:**
 Navigation Update Rate: up to 10 Hz

- › **Time-To-First-Fix**¹:
 Cold Start: 26 sn
 Reacquisition: 1 sn
 Aided Start²: 1 sn
 › **Receiver Input Sensitivity**³:
 Tracking and Navigation: -167 dBm
 Re-locking: -157 dBm
 Cold Start: -148 dBm
 › **Accuracy:**
 Horizontal Position⁴: < 2.5 m CEP
 › **Limits**
 Acceleration: 4 g
 Altitude⁵: 50000 m
 Speed⁵: 500 m/s

Sensors: 6D Acceleration/G Sensor
 (for motion and accident detection)

Tamper Mechanism: Hall Effect

OLED Display:

- › 128x64 pixel
- › Battery Status
- › GSM Connection
- › GPS Connection
- › On-Board Status

Certificates:  IP69K

¹ Measured with a high-performance active antenna

² Assisted GPS, depends on data link speed and delay

³ Measured with a high-performance active antenna

⁴ CEP, % 50, 24 h static, -130 dBm, SEP: <3.5 m

⁵ Air platform acceleration taken as <4g