Mobile Data Terminal
(with ARM Cortex-A7 application processor)

MDT-Q7
Mobile Data Terminal

Typical Applications
- Mobile Data Terminal
- Vehicle Tracking Tablet
- Portable Data Terminal
- POS Tablet
Application: Mobile Data Terminal

MDT-Q7
Mobile Data Terminal
(ARM Cortex-A7 Processor)

Remote Servers

Internet

Card Reader / Printer

4G/LTE

GPS

Digital Input

VPC100/VPC300
Vehicle Computer

CAN/OBD

Application: Retail/POS Tablet

Retail
KIOSK
Smart shelf

Industrial
HMI
Data Logger

Home
HVAC control
Console

Utility
Smart Console
Data Loggers

WiFi

Router

LAN

Local Servers

Internet

Remote Servers
# MDT-Q7

<table>
<thead>
<tr>
<th>Feature</th>
<th>MDT-Q7-S (Standard)</th>
<th>MDT-Q7-E (Enhanced)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor</td>
<td>ARM Cortex-A7 Quad core 1.3GHz</td>
<td></td>
</tr>
<tr>
<td>RAM (LPDDR3)</td>
<td>1GB</td>
<td>2GB</td>
</tr>
<tr>
<td>ROM (Flash)</td>
<td>8GB</td>
<td>16GB</td>
</tr>
<tr>
<td>Display (LCD)</td>
<td>7-inch / 1024 x 600 / 630 nits / IPS</td>
<td></td>
</tr>
<tr>
<td>Touch Screen</td>
<td>Capacitive multi-touch</td>
<td></td>
</tr>
<tr>
<td>Operating System</td>
<td>Android 6.0 (Marshmallow)</td>
<td></td>
</tr>
<tr>
<td>Battery</td>
<td>4000mAh capacity (Charging time: 2.5 hours to 90% capacity)</td>
<td></td>
</tr>
<tr>
<td>Storage</td>
<td>MicroSD SDHC (support up to 128GB)</td>
<td></td>
</tr>
<tr>
<td>Wireless</td>
<td>Wireless 802.11 b/g/n(2.4GHz)</td>
<td>---</td>
</tr>
<tr>
<td></td>
<td>Bluetooth 4.1 + BLE</td>
<td>NFC/RFID(HF) Reader</td>
</tr>
<tr>
<td></td>
<td>---</td>
<td>GPS+AGPS / GLONASS</td>
</tr>
<tr>
<td>Wireless</td>
<td>---</td>
<td>I/O interfaces: microUSB x1 / microSD slot x1 / extention port x1</td>
</tr>
<tr>
<td>Buttons</td>
<td>Power x1 / Programmable buttons x2</td>
<td></td>
</tr>
<tr>
<td>Sensors</td>
<td>Accelerometer / Ambient light sensor / Thermal sensor</td>
<td>Accelerometer / Ambient light sensor / Thermal sensor / Vibrator</td>
</tr>
<tr>
<td>Audio</td>
<td>Microphone x2 / Speaker x1</td>
<td>---</td>
</tr>
<tr>
<td>Camera</td>
<td>---</td>
<td>Rear 8MP AF (w flash) / Front 2MP</td>
</tr>
<tr>
<td>AC charger (accessory)</td>
<td>Input: 100~240VAC ; Output: 5V/2A DC</td>
<td></td>
</tr>
<tr>
<td>Certification</td>
<td>CE / FCC / E-mark</td>
<td></td>
</tr>
<tr>
<td>Dimensions / Weight</td>
<td>(W x L x H) 211 x 132 x 19/21 mm / 540g (TBC)</td>
<td></td>
</tr>
<tr>
<td>Temperature Humidity</td>
<td>Operating: -20°C<del>60°C (Charging: 0°C</del>50°C) / Storage: -40°C~70°C 0-95% non-condense</td>
<td>IP54 / 1.2M drop resistant</td>
</tr>
<tr>
<td>Ruggedness</td>
<td>IP54 / 1.2M drop resistant</td>
<td></td>
</tr>
<tr>
<td>Cradle</td>
<td>USB type A x1 / Audio jack x1 / Fleet port x1 / microUSB (charging only) x1</td>
<td></td>
</tr>
</tbody>
</table>
### MDT-Q7 Block Diagram

- **ARM Cortex-A7 (Quad-Core)**
  - 1.3GHz
- **GPS**
- **Thermal Sensor**
- **Bluetooth 4.1 / LE**
- **Extension Port**
- **NFC**
- **Micro SD**
- **Micro USB port**
- **Microphone**
- **WiFi 802.11b/g/n**
- **Accelerometer**
- **Ambient Light Sensor**
- **Vibrator**
- **4000mAh Battery**
- **7-inch 1024x600 IPS LCD, 600nits + Capacitive Touch Screen**

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### MDT-Q7 Ordering Information

<table>
<thead>
<tr>
<th>Part No.</th>
<th>DDR / Flash</th>
<th>Camera</th>
<th>Sensor / NFC</th>
<th>Common Specifications</th>
</tr>
</thead>
</table>
| MDT-Q7-S       | 1GB / 8GB   | ---                  | ---          | ARM Cortex™-A7 / Quad-core @ 1.3GHz  
5V DC IN  
7” 1024x600, IPS LCD, 600nits Capacitive Touch Screen  
Android 6.0 |
| MDT-Q7-E       | 2GB / 16GB  | 2MP Front + 8MP Rear | Vibration / NFC | Speaker x1  
WiFi 802.11b/g/n x1  
Bluetooth 4.1 x1  
GPS/Glonass receiver x1  
Accelerometer x1  
Ambient Light Sensor x1  
Thermal Sensor x1  
Extension Port x1  
AC charger x1  
Cradle x1 |

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