

In-Vehicle

**Q7S**

# Mobile Data Terminal





# Q7S Mobile Data Terminal

## 7" Portable In-Vehicle Driver Terminal

Q7S is the latest Waysion's offering which is specially designed by keeping in view the latest market trends. It is an all-in-one rugged detachable, portable, and high-performance vehicle-mounted Mobile Data Terminal that provides an outstanding user experience. Q7S is the 7-inch special, smart and intelligent mobile data terminal with a bright and daylight viewable TFT-LCD, LED backlight. Moreover, it is equipped with Android 7.1.2 OS, Poly-lion based high-capacity battery and Qualcomm Quad-core processor which results in high-performance prolonged battery backup and low power consumption. In addition to this, various features such as different wireless communication modules, make it as the best choice. Taking all these factors into consideration, it can be a perfect companion for a mobile workforce in transportation and logistics.

### Compact Design, Easy for Portable Use

The compact design of Q7S makes it aesthetically attractive and easy for portable use. The portability of a device will help your workers to work smarter. 2GB LPDDR3 RAM (1GB optional), 16GB eMMC ROM (8GB optional), Quad-core ARM Cortex-A7 processor, Integrated Adreno Graphic Card, Extendable Storage, Docking Station, USB, RS232, RS422. These are the front-end specifications that make Q7S the best MDT choice.

### Rugged, Resistance and Capabilities

The Major problem with most of the mobile data terminals throughout the world is that, these devices are not capable of passing ruggedness and resisting against the harsh environments. Q7S is an IP65 grade Android-based MDT that is specially designed with the capabilities to tolerate harsh scenarios such as subzero-temperature, snow, dust, passing ruggedness and other rough situations. Q7S has already proved itself for many companies as the most efficient, rugged and best in-vehicle portable choice!

### Built for all-day every-day business

#### High Capacity Battery and Low Power Consumption

Q7S is equipped with a high capacity (3.7V 5000mAh) battery based on Poly-lion which can provide up to 6 hours long battery backup. Moreover, the fast ultra-low-power processor combines with plenty of memory, allowing workers to run multiple apps simultaneously. And the processor minimizes power consumption, extending useful battery life.

### All-In-One Approach Makes Q7S a Perfect Choice

Q7S comprehensively covers all the modern features in one device. It is equipped with the latest Android 7.1.2 operating system, a highly optimized Qualcomm Quad-core processor and an advanced touch screen technology that gives an outstanding user experience to the end-user. With its highly responsive touch input capabilities, this powerful rugged tablet gives all of your workers the flexibility to quickly and comfortably complete any task at their hands. Thus, it makes the perfect companion for your logistics mobile workforce.

### CE/E-mark/FCC/TELEC Compliant

Q7S meets the standards of various well-known regulatory bodies thus making the product internationally recognized.

### Reliable Network Module for Many Industrial Applications

Cellular signaling schemes and digital data transmission modules are very important for the portable devices. Different industrial applications under different conditions like an indoor, desert, cave and much more, need a reliable network module to keep the device connected with and let you make full use of MDT. After a long research and technical assessments by our highly professional tech experts, we have chosen Quectel 4G (LTE, UMTS, CDMA2000, TD-SCDMA, and GSM) network module for our Q7S.



**Reliable consult service, necessary technical support together with 12-month standard warranty are guaranteed with Waysion's experienced technical team**

For more information, visit [www.waysion.com](http://www.waysion.com)

# Specification

Core	
<b>Processor</b>	Qualcomm Quad core ARM Cortex-A7, 1.1GHz
<b>Graphic</b>	Integrated Adreno 304 GPU, up to 400MHz
<b>RAM</b>	2GB LPDDR3 (1GB optional)
<b>ROM</b>	16GB eMMC (8GB optional)
<b>OS</b>	Android 7.1.2

Display	
<b>LCD panel</b>	7-inch IPS TFT-LCD, LED backlight
<b>Resolutions</b>	1280 × 800
<b>Brightness</b>	350 cd/m <sup>2</sup> (typical)
<b>Contrast Ratio</b>	800:1
<b>View Angle (°)</b>	89/89(L/R), 89/89(U/D)
<b>Touch panel</b>	G+G multi-touch capacitive touch panel

Wireless	
<b>WiFi</b>	IEEE 802.11 a/b/g/n/ac 2.4GHz & 5GHz
<b>Bluetooth</b>	Ver 4.2
<b>Cellular</b>	4G (LTE, UMTS, CDMA2000, TD-SCDMA, GSM)
<b>Positioning</b>	Integrated GPS+GLONASS+BEIDOU

Optional Function	
<b>Camera</b>	2.0MP CMOS (front) 5.0MP CMOS (back)
<b>NFC</b>	Read/Write Mode: ISO/IEC 14443 A&B up to 848kbit/s, FeliCa at 212 & 424 kbit/s, MIFARE 1K, 4K, NFC Forum type 1, 2, 3, 4, 5 tags, ISO/IEC 15693 Card Emulation Mode (from host): NFC Forum T4T (ISO/IEC 14443 A&B) at 106 kbit/s, NFC Forum T3T (FeliCa, PN7150 only)
<b>G-sensor</b>	Built in
<b>Light sensor</b>	Built in
<b>Compass</b>	Built in
<b>Gyroscope</b>	Built in
<b>Speaker</b>	Built-in stereo speaker(2W, 4Ω)

Multimedia	
<b>Video</b>	Encode:30fps 720p(H.264)30fps.WVGA(mp4/VP8) Decode:30fps 1080p(H.264/mPEG-4/VP8/H2.65 DIVX4/5/6)30fps WVGA(H.263)
<b>Audio</b>	MP3, WMA, OGG, APE, FLAC, AAC etc.

User Interface	
<b>Onboard I/O ports</b>	1 x TF card slot(up to 128GB)
	1 x SIM card slot
	1 x OTG (USB Mini AB type)
	1 x Combo Audio Jack (audio+mic)
	1 x POGO PIN (20 PIN)
<b>Extended I/O ports (on pigtail cable)</b>	1 x RS422 (RS485 optional)
	1 x RS232 (OBD-II optional)
	Support OBD-II & SAE-J1939 (Share the same interface with RS232, OBD-II serial port will be occupied) via external analytical box
	4 x GPIO (input*2, output*2)
	1 x DC in (9~36V)
	1 x ACC Input
<b>Function Key</b>	Power, Menu, Home, Return
<b>Power Indicator</b>	Red(charging), Green(full)

Power Supply	
<b>DC In</b>	12V DC (9~36V)
<b>Battery</b>	3.7V 5000mAh, Lithium-Polymer battery pack (run-time up to 6 hours)

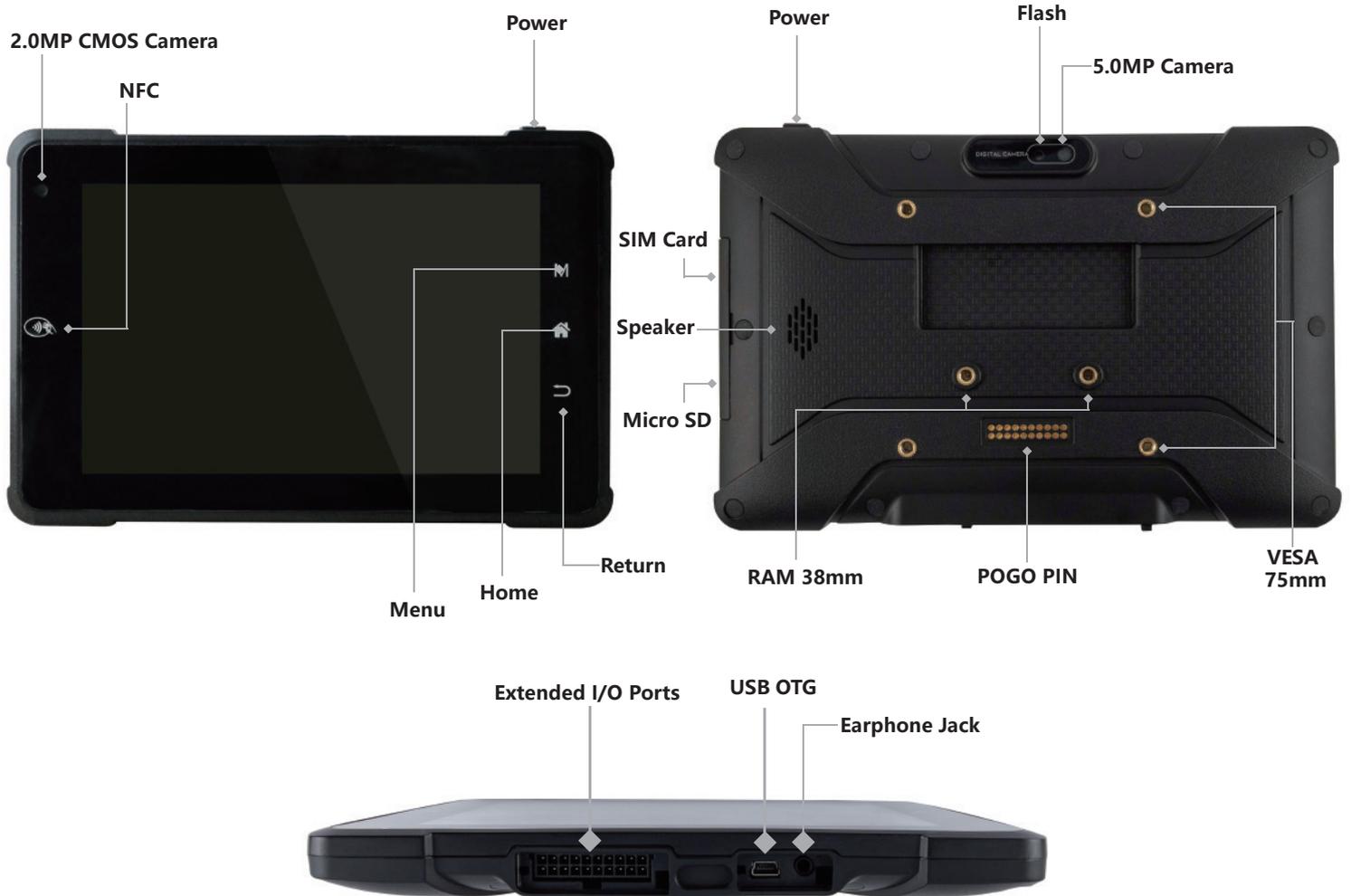
Power Consumption	
<b>Normal mode</b>	≤6W
<b>Charging mode</b>	≤10W

Environment	
<b>Operating Temp</b>	-20°C~70°C (w/o battery)
	-10°C~50°C (w/ battery)
<b>Storage Temp</b>	-20°C~80°C
<b>IP Rating</b>	IP65

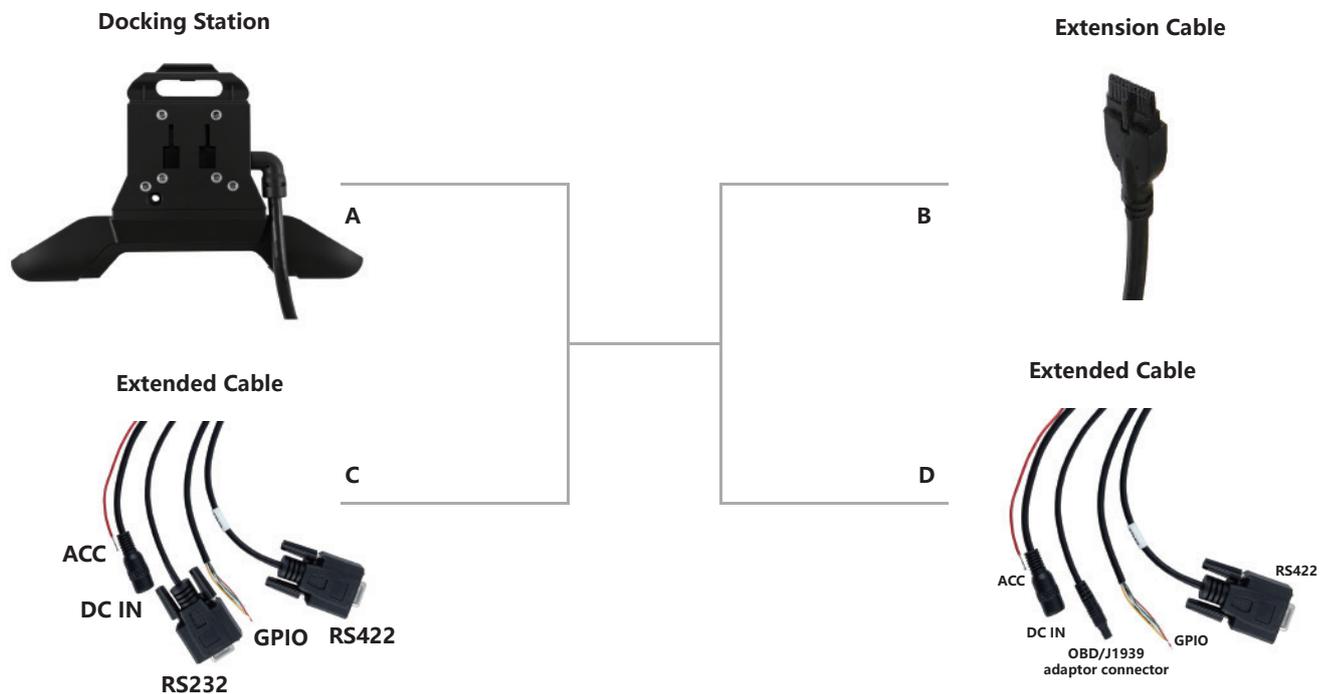
Mechanical	
<b>Dimensions</b>	200(W)x130(H)x20(D) mm
<b>Weight</b>	0.47kg (tablet only)
<b>Mount</b>	VESA, RAM, Double-T compliant

Accessories	
<b>Standard</b>	AC/DC adaptor or car power adaptor(optional)
<b>Optional</b>	Docking, extended cable, J1939 cable, OBD-II cable

## Interface



## Accessories



\*Extended cable options: AC, AD, BC, BD