Mobile Data Terminals
Rugged computer hardware for demanding vehicle applications
Established in 1983, QSI Corporation specializes in designing and manufacturing rugged mobile data terminal (MDT) and human machine interface (HMI) hardware for commercial vehicle systems integrators and industrial OEMs. Our products include graphic and character terminals that are programmable, customizable, CE Certified and NEMA 4/12/13 rated. QSI terminals are built to withstand high levels of shock, vibration, humidity and other environmental conditions.

Our Core Competencies:

- **Designing and Manufacturing Rugged Terminals** to meet extensive environmental standards
- **Engineering, Design, Manufacturing and Service** all located in Salt Lake City, Utah
- **Versatile Configurations** for seamless integration into your application
- **Customization** to fit your specific requirements
- **Knowledgeable Customer Service** from our reliable and experienced staff
- **Superior Quality** and pride in workmanship
Created for vehicle systems integrators, TREQ mobile data terminals are designed and built to perform in the most extreme environments. If you are looking for a mobile data terminal that is durable, powerful and affordable, the TREQ is the ideal in-cab hardware for your fleet management applications.

<table>
<thead>
<tr>
<th>Display Size</th>
<th>Processor</th>
<th>Operating System</th>
<th>Operating Temperature Range</th>
<th>Storage Temperature Range</th>
<th>RAM</th>
<th>FLASH</th>
<th>Cellular Modem</th>
<th>GPS</th>
<th>Ethernet</th>
<th>USB</th>
<th>Serial</th>
</tr>
</thead>
<tbody>
<tr>
<td>178mm (7”) 800x480</td>
<td>AMD Geode™ GX 500 (x86)</td>
<td>Windows® CE 5.0</td>
<td>-20 to 60 ºC</td>
<td>-40 to 80 ºC</td>
<td>128 Mbytes</td>
<td>2 Gbytes</td>
<td>Quad-band GSM/GPRS modem</td>
<td></td>
<td>Wireless and Wired</td>
<td>Up to three ports</td>
<td>Up to two serial ports</td>
</tr>
<tr>
<td>178mm (7”) 800x480</td>
<td>Marvell® XScale™ 416 MHz (ARM)</td>
<td>Windows® CE 5.0</td>
<td>-20 to 60 ºC</td>
<td>-40 to 80 ºC</td>
<td>128 Mbytes</td>
<td>2 Gbytes</td>
<td>--</td>
<td>50 Channel GPS receiver</td>
<td>Two ports</td>
<td>One serial port</td>
<td></td>
</tr>
<tr>
<td>109mm (4.3”) 480x272</td>
<td>Marvell® XScale™ 624 MHz (ARM)</td>
<td>Windows® Embedded CE 6.0</td>
<td>-20 to 70 ºC</td>
<td>-40 to 85 ºC</td>
<td>128 Mbytes</td>
<td>2 Gbytes</td>
<td>--</td>
<td></td>
<td>Wired</td>
<td>Up to three ports</td>
<td>Two serial ports</td>
</tr>
</tbody>
</table>
TREQ-DX

The workhorse for your workforce

The full-featured TREQ-DX mobile data terminal is perfect for fleet management, dispatching, messaging, reporting, mapping and navigation. With Windows® CE 5.0 operating system, the rugged TREQ-DX ensures broad support for your custom application development and third-party software and hardware.

Features:

- 178 mm (7”) 800x480 color TFT LCD display
- Analog resistive touch screen
- AMD Geode™ GX 500 (x86) processor
- Windows® CE 5.0 operating system
- -20 to 60 ºC operating temperature
- 2 Gbytes Flash, 128 Mbytes RAM
- Quad-band GSM/GPRS modem*
- Integrated 50-channel GPS receiver*
- 802.11b/g wireless Ethernet*
- 10/100Base-T wired Ethernet
- Two USB ports, third available
- Up to two serial ports (one EIA-232, one configurable to EIA-232, -422, -485)
- J1708/J1939 (CANbus) interface*
- Supports 12- or 24-volt vehicle power *optional
TREQ-L

Rugged and economical

When you need an economical solution for your mobile data terminal needs, the TREQ-L offers a durable and capable solution. By integrating with other communication devices it acts as an invaluable interface to the technologies you need.

Features:
- 178 mm (7") 800x480 color TFT LCD display
- Analog resistive touch screen
- Marvell® XScale™ PXA 270 (ARM) processor
- Windows® CE 5.0 operating system
- -20 to 60 ºC operating temperature
- 2 Gbytes Flash, 128 Mbytes RAM
- Two USB ports
- One serial port (configurable to EIA-232 or -422)
- Supports 12- or 24-volt vehicle power
TREQ-M4

Powerful hardware in a compact size

The TREQ-M4 is the latest addition to the TREQ line of mobile data terminals. It features robust engineering in a compact size. The rugged design, compact housing and affordable pricing make the TREQ-M4 ideal for your in-vehicle applications.

Features:

- 109 mm (4.3") 480x272 TFT Color LCD Display
- Analog resistive touch screen
- Marvell® XScale™ PXA300 (ARM) processor
- Windows® Embedded CE 6.0 operating system
- -20 to 70 °C operating temperature
- 2 Gbytes Flash, 128 Mbytes RAM
- 10/100Base-T wired Ethernet
- Two USB ports, third available
- Bluetooth*
- Magnetic card reader*
- Two serial ports (one EIA-232, one configurable to EIA-232, -422)
- Supports 12- or 24-volt vehicle power  *optional
THE VTERM SERIES

Rugged graphic and character vehicle terminals

When space, cost and simplicity are issues, one of our rugged VTERM series terminals will surely meet your needs. With features ranging from graphic color displays with battery and touch screen, to a simple character display, our VTERM terminals are designed to the same standards as all of QSI’s rugged hardware.

VTERM-G58

- 89 mm (3.5”) 320x240 color touch screen TFT LCD
- Software configurable EIA-232/422/485 multiport
- 802.11b/g wireless Ethernet, dual antennas*
- Internal lithium-polymer rechargeable battery
- 8 to 32 VDC Power
- -20 to 60 °C operating temperature (-20 to 55 °C with WiFi option)

VTERM-G55

- 96 mm (3.8”) 320x240 gray scale LCD display
- Serial EIA-232 port and software configurable EIA-232/422/485 multiport*
- Ethernet 10/100Base-T interface*
  (supports TCP/IP, Modbus™ and other protocols)
- Power-over-Ethernet (PoE)*
- 8 to 32 VDC Power
- -20 to 60 °C operating temperature

VTERM-G56

- 89 mm (3.5”) 320x240 color touch screen TFT LCD
- Serial EIA-232 port and software configurable EIA-232/422/485 multiport
- Ethernet 10/100Base-T interface*
  (supports TCP/IP, Modbus™ and other protocols)
- 8 to 32 VDC Power
- -20 to 60 °C operating temperature

VTERM-J

- Economically priced
- Supertwist 20x4 LCD display
- EIA-232, -422* or 5-volt buffered*
- 18-, 24- or 40-key tactile keypad
- Non-volatile memory
- 7.5 to 24 VDC Power
- -10 to 60 °C operating temperature
CUSTOM TERMINALS

When you need a custom terminal, we’ll create it

By leveraging existing hardware, software and mechanical technologies, we can decrease design time and project cost to provide you with a completed custom terminal. Our professional in-house engineers and programmers can quickly design, test and deliver a working prototype of your custom terminal.

Whether you need to add a keypad to an existing touch screen, modify a component or build a completely new product from the ground up, we have the resources and expertise to design your custom mobile data terminals.
HUMAN MACHINE INTERFACE TERMINALS

Built to withstand the harshest conditions

QSI’s rugged human machine interface (HMI) terminals are customizable and built for demanding industrial and commercial environments. Our HMI terminals withstand high levels of shock, vibration, humidity, and other environmental conditions.

Customizable configurations include handheld, panel-mount or pedestal-mount housings, character or graphic displays, touch screen or keypads, and your choice of wired and wireless communications.

All of our graphic terminals use Qlarity Foundry®, our free PC-based design tool for screen creation and application development.

**QTERM-G70**
145 mm (5.7”) Color Display
Touch Screen
Ethernet Enabled

**QTERM-G75**
264 mm (10.4”) Color Display
Touch Screen
Ethernet Enabled

**QTERM-Z60**
145 mm (5.7”) Color Display
EIA-232 Serial Port
Economically Priced

**QTERM-G58**
89 mm (3.5”) Color Display
WiFi, Battery Powered
Touch Screen

**QTERM-G56**
89 mm (3.5”) Color Display
Touch Screen
Ethernet Enabled

**QTERM-G55**
96 mm (3.8”) Display
Ethernet-Enabled
Economically Priced

**QTERM-J10**
20x4 LCD Display
EIA-232, -422 or 5v
CE Certified

**QTERM-P40**
20x4 Large Character
24- or 40-Key Keypad
Panel-Mount

**QTERM-II, IV**
20x4 LCD Display
Programmable Keypad
Low Cost
QSI Corporation knows you need a durable mobile data terminal that is robust enough to meet your requirements. That’s why QSI’s rugged terminals are customizable and built to withstand a wide range of environmental conditions. To validate this, we use extensive environmental testing to ensure our terminals meet a variety of standards. Qualification testing, acceptance testing and sustaining testing are performed in-house to guarantee performance in the harshest conditions. Third-party testing is also performed on our terminals to meet additional certifications.

During the development of a new product, testing is performed on prototypes and pre-production terminals. This exhaustive process pushes terminals to their breaking point so we know what they can handle in the real world. This testing is continued on a sampling basis after the product is in production. Additional testing is performed on all terminals to verify proper functionality of the unit before they are shipped.