QTERM-G58

Low-cost, Rugged, Handheld Graphic Operator Interface Terminal with optional Battery and Wireless









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Low-cost, Rugged, Handheld Graphic Operator Interface Terminal with optional Battery and Wireless

(((WiFi)))



- 320x240 Color transflective sunlight-readable TFT LCD
- Rugged handheld ABS/polycarbonate case available in blue, gray or black with black elastomer overmold
- -20 to 60 °C operating temperature (-20 to 55 °C with wireless Ethernet option)
- Battery Option internal lithium-polymer rechargeable, 10+ hours active life (optional)
- 802.11b/g wireless Ethernet (optional)
- USB device for mass storage for access
- Realtime clock
- Memory up to 32 MBytes SDRM, up to 8 MBytes NOR flash, or up to 8 GBytes NAND flash
- NEMA-4 or -12 depending on configuration; NEMA 4 sealing for hose-down, icing and salt spray
- Serial port EIA-232 Optional software-configurable EIA-232, -422, -485 multiport

- 24- or 40-key steel-dome membrane keypad; optional lighted keypad
- 4 or 5 programmable LEDs on keypad, plus shift and power LEDs
- 10/100Base-T or 10/100Base-TX wired Ethernet (optional)
- 8 32 VDC input

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RoHS Compliant

- Powerful Qlarity[®] object-based programming for easy application development
- Windows® programming, simulation and debugging environment
- Programmable speaker and .wav audio decoder (optional)
- CE Certified
- RoHS Compliant
- Make the QTERM-G58 *your* product with a custom key legend and company logo

Overview

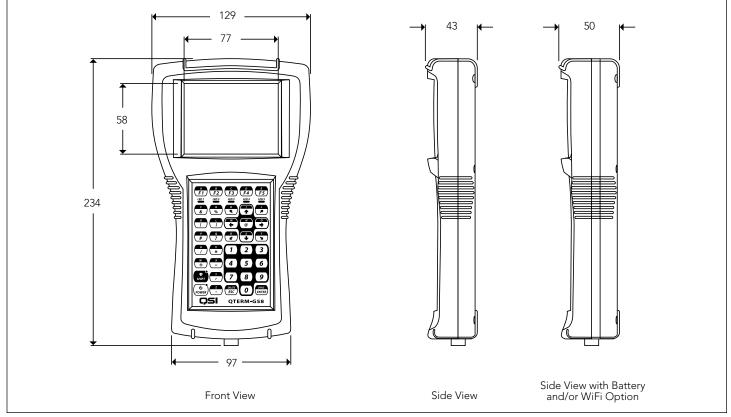
Starting at \$459, the QTERM-G58 is a cost-effective, ultra-rugged handheld operator interface with a 3.5" (89 mm) color sunlight readable display. Ethernet, serial, USB, 802.11b/g wireless and battery power options are configured for your toughest applications. Our rigorous engineering and qualification testing makes this unit suitable for mobile and handheld applications such as from oil and gas, utilities, process control, agriculture, forestry and manufacturing.

User input occurs through a rugged 24- or 40-key membrane keypad with steel domes. The standard keypad comes with four

or five LEDs under the soft keys that can be used as status or alarm indicators. The standard keypad legends can be customized specifically for your application and with your logo.

Robust object-based programming with Qlarity™ allows fast screen design and integration with your system requirements. Programming can be started immediately by downloading QlarityFoundry™ free from our website.

Speed up your development process and time to market with QSI's QTERM-G58; this wireless terminal is unparalleled in ruggedness and reliability. QSI has brought its design and manufacturing expertise to customers worldwide for 25 years.



QTERM-G58 housing dimensions shown in mm.

Feature	QTERM-G58/L	QTERM-G58/E	QTERM-G58/B
4 Mbytes NOR flash and 16 Mbytes SDRAM	\checkmark	√	√
256 Mbytes internal NAND flash for mass storage		√	√
8 to 32 VDC regulator	\checkmark	√	√
Internal battery pack and charger			√
USB Mass Storage		√	√
COM 1 EIA-232 with RTS/CTS	\checkmark		
COM 1 Serial Multiport (software-configurable EIA-232, EIA- 422 or EIA-485)		√	√
10/100Base-T or 10/100Base-TX wired Ethernet		√	
NEMA-12	\checkmark	√	NEMA-4 only
Options			
802.11b/g wireless Ethernet	\checkmark		√
24- or 40-key membrane keypad	\checkmark	√	√
EL Keypad Lighting	√	√	√
Keypad legend (customizable)	\checkmark	√	√
E-Stop Switch (requires the integral cable option)	\checkmark	√	
NEMA-4	\checkmark	√	Standard
Audio WAV files		√	√
Integral Cable	√	√	

	8 Specifications				
Feature	Detail	Description			
Display Color Color depth Size / Dot Pitch Lighting	Color	320x240 Color transflective sunlight readable TFT LCD			
	Color depth	262,144 color (limited to 256 by Qlarity)			
	Size / Dot Pitch	89 mm (3.5") diagonal, 0.2235 mm			
	Lighting	LED 220 cd/m² typical. Brightness is software-controllable			
Keypad Number of keys Construction Lighting (optional) Legend customization (option	Number of keys	24-key standard, 40-key optional			
	Construction	Steel snap domes in membrane, 4 or 5 programmable LEDs, Power and Shift LEDs			
	Lighting (optional)	Electroluminescent			
	Legend customization (optional)	Prototype and custom legends are available			
Interface Serial port Serial multiport (optional) Baud rates Data formats Connector Connector (optional) Ethernet (optional) USB device	Serial port	EIA-232 serial port with RTS/CTS			
	Serial multiport (optional)	Software-configurable EIA-232/422/485 serial multiprotocol port			
	Baud rates	600, 1200, 2400, 4800, 6900, 14400, 129200, 38400, 57600, 115200			
	Data formats	8n1, 8e1, 8o1, 8n2, 7e1, 7o1, 7n2, 7e2, 7o2			
	Connector	Hirose HR30 12-pin sealed push-lock circular connector			
	Connector (optional)	14 conductor integral cable with DB15 termination, 3 or 10 m			
	Ethernet (optional)	10/100Base-T or 10/100Base-TX wired Ethernet			
	USB device	USB 2.0 full speed device port for mass storage access			
Memory	Flash	4 Mbytes NOR			
	RAM	16 Mbytes SDRAM and 256 Mbytes internal NAND flash for mass storage			
Wireless	802.11 b/g	Dual Antenna			
	Authentication	WEP, WPA, WP2			
	Encryption	WEP, PSK-TKIP, PSK-AES			
	Modes	Infrastructure, Ad-hoc			
Audio	Веер	Standard beep, software controllable in duration and pitch			
SF	Speaker	Sealed 1 W 8 Ω speaker, 83 dB nominal at 100 mm, 1 W input power			
	Audio decoder (optional)	Single channel digital decoder for .wav files			
Housing	Handheld	ABS polycarbonate. Available in blue, gray or black with black overmolded elastomer boo			
3	UL	HB flame rating			
	Size	Standard 129x234x43 mm			
		Battery option 129x234x50 mm – battery and wireless Ethernet			
Ma	Mass	Standard 510 g Battery option 665 g			
Environmental	Sealing	Standard NEMA-12 Optional NEMA-4 Battery NEMA-4			
	Temperature	Operating -20 to 60 °C (Standard) -10 to 50 °C (Prototype) -20 to 55 °C (Wireless Etherne			
		Storage -30 to 70 °C			
	Humidity	0 to 95%, non-condensing			
	Vibration	5 to 2000 Hz, 4 g RMS			
	Shock / drop	40 g, 11 ms, any axis / 1.5 m onto concrete			
	FCC certification	FCC Part 15, Class A			
	CE Certified				
Processor	Туре	EN60950:1992, EN55022:1994 FCC Part 15, Subpart B, ICES-003, EN55024:1998			
Realtime clock	Standard	Atmel ARM9 200 Mhz			
		Standard, battery-backed, 1 second resolution			
Power Standard Battery power (optional)		8 to 32 VDC. Power switch on membrane keypad for quasi-full shutdown			
		Internal Lithium-polymer rechargeable battery pack (per model)			
Other	Battery life	10+ hours active life, 3 hours recharge time			
Other	E-stop (optional)	Two-pole, normally closed (requires integral cable option)			
Software	Terminal operating system	Qlarity® – Object-based programming language			
	Development environment	Qlarity Foundry® – Windows® design environment			
Accessories	Cables, etc. (sold separately)	Cable, HR30 to Blank, 3 m or 10 m. Programming Cable, HR30 to USB Type A plug, 2 m Battery charging cable, 120 volt AC or 12 volt C vehicle lighter plug. Holster			