

# TREQ<sup>®</sup>-VM / TREQ<sup>®</sup>-VMx

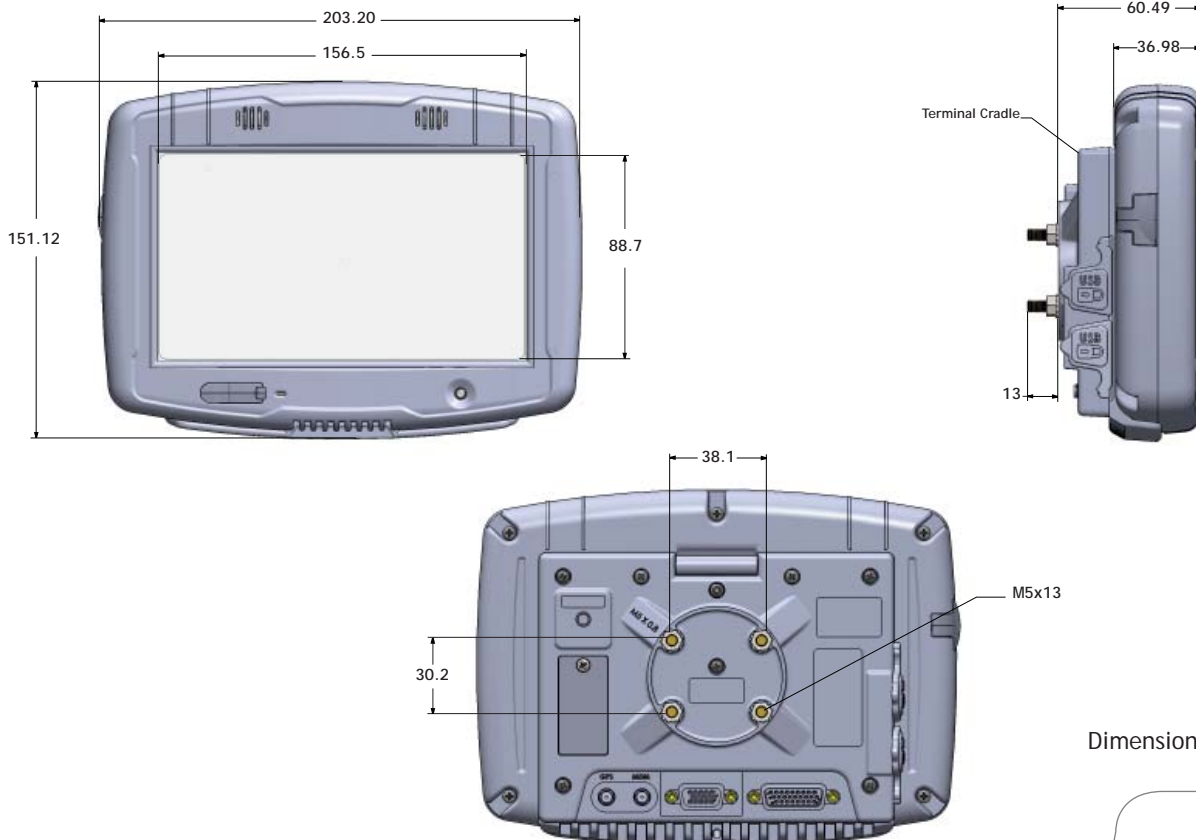
7" Mobile Data Terminal for Rugged In-Vehicle Use

**TREQ<sup>®</sup>** VM The TREQ<sup>®</sup>-VM and TREQ-VMx are powerful mobile data terminals available in both fixed-mount and removable versions. They include all of the industry standard interfaces for in-vehicle use, while maintaining the ruggedness and reliability that the TREQ family is known for.



## Product Highlights

- ▶ Available in fixed-mount and removable versions
- ▶ 800 x 480 pixel WVGA, 7" (178 mm) diagonal, LED lighted, TFT color LCD touch screen display
- ▶ Integrated quad-band GSM/GPRS modem, GPS receiver and J1708/J1939 (TREQ-VMx)
- ▶ 10/100Base-T wired Ethernet, 802.11b/g wireless Ethernet
- ▶ EIA-232, EIA-232/422/485, five USB 2.0 high-speed host ports
- ▶ One hour active life lithium-polymer battery
- ▶ Extended temperature range
- ▶ Windows<sup>®</sup> Embedded CE 6.0 R3 Core or Professional (optional)



Dimensions shown in mm.

## Specifications

Feature	Detail	TREQ-VM	TREQ-VMx
Display	Type	800 x 480 WVGA, TFT color LCD	
	Size	7" (178 mm ) diagonal	
	Lighting	LED	
	Brightness	Software controllable	
Touch Screen	Type	Analog-resistive	
Interface	Ethernet	10/100Base-T wired Ethernet, 802.11b/g with internal antenna	
	Serial	One EIA-232/422/485 configurable; one EIA-232	
	Additional Serial	N/A	One EIA-232
	USB	Four 2.0 high-speed host ports (type A connectors, two locking); Fifth 2.0 high-speed host port in DB26HD connector	
	Vehicle Bus	N/A	J1708/J1939 (CANbus) interface
	Digital I/O	N/A	Two general inputs, two general outputs
	Ignition Sense	One ignition sense	
	Cellular	N/A	Quad-band GSM/GPRS modem (external antenna required)
	GPS	N/A	GPS receiver (external antenna required)
Processor	Type	Marvell® XScale™ PXA166, 800 MHz (ARM)	
Memory	RAM	256 MB DDR3	
	Flash	4 GB NAND	
	Expansion	Micro SD	
Realtime Clock	Standard	Battery-backed, 1 second resolution	
Audio	Speaker	Built in; two front-facing	
	Microphone	Built in; front-facing	
	Other	N/A	3.5 mm TRS headphone jack for voice I/O
Power	Input	8 to 32 VDC (exceeds J1455)	
	Consumption	10-12 Watts typical (16-17 Watts while battery charging)	
	Other	SAE J1455 compliant	
Mechanical	Type	Fixed-mount or removable with cradle (uses RAM Mount or comparable)	
	Size	215 (W) x 156 (H) x 65 (D) mm (maximum with rubber boot)	
	Mass	1 kg	
	Housing Material	Blended polycarbonate and polyester resin	
	Cables	Sold separately	
Environmental	Temperature	Operating: -20 to 60 °C; Storage: -40 to 75 °C	
	Humidity	0 to 95%, non-condensing	
	Vibration	4 g 10-1500 Hz	
	Shock	40 g, 11 ms, any axis	
Certifications	CE	EN60950-1, EN55022, EN55024	
	EMC	FCC Part 15, Class A	
	RoHS	Compliant	
	PTCRB	N/A	T-Mobile®
Software	Operating System	Windows® Embedded CE 6.0 R3 Core or Professional (optional)	
	Development Environment	Microsoft® Visual Studio®, Win32, MFC, Visual C#® and Visual Basic®	
Other	Battery	Lithium-Polymer with nominal 1 hour active life	



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