

TREK-743



7" All-in-one Mobile Data Terminal

Features

- 7" WVGA TFT LCD, with adjustable brightness
- 5 programmable function keys with LED backlight
- Rugged aluminum enclosure and fanless design
- Windows® Embedded Standard (WES) 2009, WinCE6.0 and Ubuntu Linux 10.04
- Flexible expansion capabilities for IEEE 802.11b/g WLAN, GPS, GPRS/CDMA/HSDPA
- Operates in an extreme range of temperatures
- 12 V/24 V car power solution for in-vehicle applications



Introduction

The TREK-743 is a fanless, compact, mobile data terminal designed for a wide range of commercial vehicle applications. With its radio options and programmable function keys, it is suitable for delivery, fleet management and warehousing/logistics applications. The ruggedized aluminum enclosure does not need ventilation holes, which makes the TREK-743 waterproof and dustproof. It is equipped with options for real-time communication and data capture to improve productivity in vehicles.

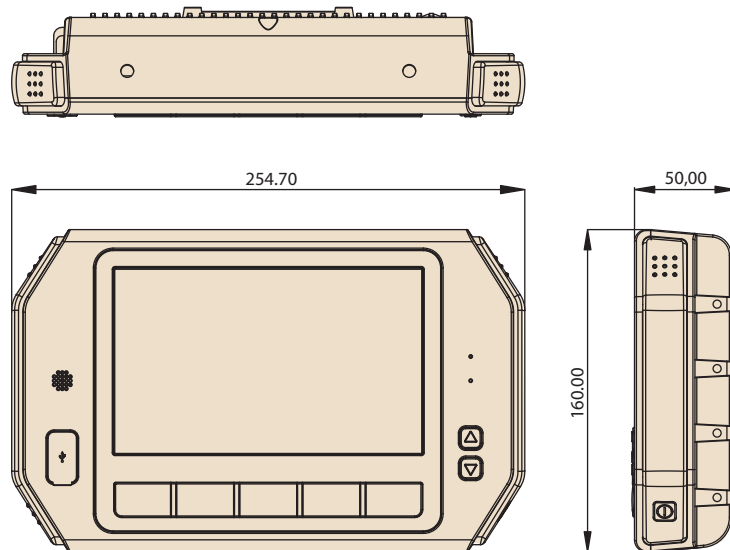
Specifications

System Kernel	CPU	Onboard AMD LX800 500 MHz
	Chipset	AMD CS5536AD South Bridge
	System Memory	One 200-pin SODIMM socket, up to 1 GB DDR266/333/400 SDRAM (Win CE supports up to 512 MB DDR)
	Operating System	Windows® Embedded Standard (WES) 2009, WinCE6.0 and Ubuntu Linux 10.04
Input/Output Features	Storage	1 x type II CompactFlash socket
	COM Port	2 x RS-232/422/485 ports by jumper setting
	USB	1 x front panel USB2.0, and 2 x USB2.0 ports on I/O bracket
	LAN	10/100 Mbps Ethernet via RJ-45
	Audio	Built-in 1 x 1.5w speaker
	Function Keys	5 lighted, programmable function keys
	GPS (Optional)	50 channel GPS by uBlox LEA-5S with SMA connector for external antenna
	Bluetooth (Optional)	Class 2 Bluetooth V2.0 + EDR module with built-in antenna
	CAN Bus	CAN Bus2.0b with J1939 protocol
	WWAN (Optional)	Quad-band GPRS MC55i / CDMA MC5728V / HSDPA MC8790V with SMA connector for external antenna
	WLAN (Optional)	IEEE802.11b/g with SMA connector for external antenna
	Protection	IP65 front panel and back cover protection
	Dimensions (W x H x D)	255 x 160 x 50 mm (10.04" x 6.30" x 1.97")
	Weight	1.7 kg (3.75 lb)
Power Supply	Input Voltage	9 ~ 36 V _{DC}
	Minimum Input Voltage	6 V _{DC} , supports ignition cold crank, Low battery shut-down protection threshold (optional) Compliant ISO7637-2 & SAE J1113 for commercial vehicles
	Ignition On/Off	Power on delay, default 2 seconds
		Power off delay, default 5 seconds Hardware power off delay, default 30 seconds
Display	Display Type	7" color TFT LCD, LED backlight
	Luminance	400 cd/m ²
	Max. Resolution	Wide-VGA 800 x 480, 5% ~ 100% brightness controlled by H/W buttons
Touchscreen	Type	Analog resistive, continuous resolution
	Light Transmission	80%
Environmental Specifications	Operating Temperature	-20 ~ 60° C (-4 ~ 140° F)
	Relative Humidity	10 ~ 95% @ 40° C (non-condensing)
	Shock	30 G peak acceleration (11 msec duration)
	Vibration	5 ~ 500 Hz 4.5G RMS random vibration
	Certifications	EMC: CE, FCC, CCC Safety: UL, CUL, CE, CCC, CB, E-mark, SAE J1455 compliant

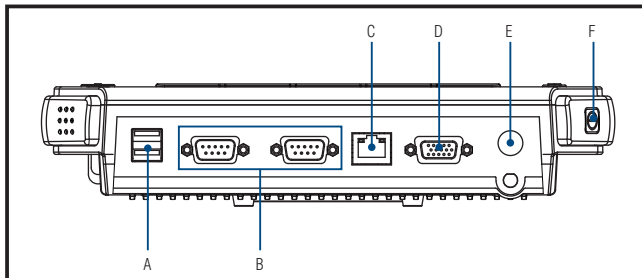
TREK-743

Dimensions

Unit: mm



Fully Integrated I/O



A: 2 x USB v2.0
B: 2 x RS-232/422/485
C: 1 x 10/100 LAN

D: 1 x CAN Bus & 4 Optically Isolated
DI/DO (DB-15 Connectors)
E: DC Inlet
F: Power On/Off Switch

Ordering Information

Part Number	Description
TREK-743R-A1E	TREK-743R bare-bone w/ A1 ver.
TREK-743R-HA1E	TREK-743R-A1E w/HSDPA
TREK-743R-GA1E*	TREK-743R-A1E w/GPS, GPRS, BT
TREK-743R-XPEA1E	TREK-743R-A1E w/WES, 1G RAM, 2 G CF
TREK-743R-WCEA1E	TREK-743R-A1E w/WLAN, CE 6.0, 512M RAM, 2 G CF
TREK-743R-GXPEA1E*	TREK-743R-A1E w/GPS, GPRS, WES, BT, 1 G RAM, 2 G CF
TREK-743R-CWXPEA1E	TREK-743R-A1E w/GPS, CDMA, WLAN, XPE, 1 G RAM, 4 G CF
TREK-743R-HWXPEA1E	TREK-743R-A1E w/GPS, HSDPA, WLAN, XPE, 1 G RAM, 2 G CF
TREK-743R-GWXPEA1E*	TREK-743R-A1E w/GPS, GPRS, WALN, BT, XPE, 1 G RAM, 2 G CF

*Note: Bluetooth is only available with GPRS configuration.

Mounting Kits

Part Number	Description
RAM-MOUNT-01	VESA RAM mount w/clamp base, 1.5" ball
RAM-MOUNT-02	VESA RAM mount w/2.5" DIA. base, 1.5" ball
RAM-MOUNT-03	VESA RAM mount w/3.68" DIA., 2.25" ball
RAM-MOUNT-06E	VESA RAM mount w/VESA base, 1.5" ball

Packing List

Description	Quantity
TREK-743	x1
1.8 m system power cable (1700017857)	x1
5 m GPS antenna (1750001380, optional)	x1
GPRS antenna (1750005865, optional)	x1
Wireless antenna (9680001060, optional)	x1
Driver & manual CD for TREK-743	x1

Option Kits

Part Number	Description
9668TREK08E	MiniPCI 802.11b/g (reserve a) WLAN kit for TREK
9668TREK11E	GPS LEA-5S kit of TREK-743 Rev.A1
9668TREK14E	HSDPA MC8790V kit of TREK-743 Rev.A1
9666074302E	19 V adapter for TREK-743 test purpose