

TREK-755

Vehicle Mounted Computer with 10.4" TFT LCD



Features

- 10.4" TFT LCD Display, 5 ~ 100% dimmable
- Rugged aluminum enclosure and fanless design
- VESA standard for flexible mounting kits
- IP65 dustproof and waterproof seals
- Compatible with Windows 98/2000/XP and Linux
- Embedded OS Support (WinCE .NET 4.2; XP Embedded)
- Flexible expansion capability for 802.11a/b/g, GPS, GPRS, CDMA, GSM
- Variable power source: 12 V, 24 V, 48 V DC and AC power supply
- Optional extreme temperature operating capability
- Optional sunlight readable capability

Introduction

TREK-755 is a fanless vehicle mounted computer that comes with a VIA® Eden™ low-power CPU for high reliability and performance. It is designed for applications in: depots, warehouses, transportation, agriculture, manufacturing, ports & container yards, distribution centers, shipyards, and lumberyards where it is mounted in electric vehicles.

The rugged die-cast aluminum enclosure replaces the fan as it helps TREK-755 dissipate heat. TREK-755 has a special design without ventilation holes that makes the front panel, back cover and sides comply with IP65/NEMA4, while the more exposed I/O ports have been placed in the bottom to protect against vertically falling water. TREK-755 can therefore be placed in harsh environments with dust and humidity. TREK-755 serves as a shockproof solution for rotating drive applications. With the installation of a solid state CompactFlash® card, TREK-755 can additionally offer shock and vibration proof data storage for critical industrial applications.

TREK-755 is designed to be used in both wireless and wide area networks with its expansion capabilities for 802.11b/g, GPS, GSM, or GPRS. In addition to Windows® 98, 2000 and XP, TREK-755 also supports embedded operating systems like Win CE .NET, WinXP Embedded, and Linux.

Specifications

▪ CPU	On-board VIA Eden 800 MHz CPU
▪ System Memory	Supports DDR 200/266 SDRAM up to 2 GB
▪ SSD	Supports one internal CompactFlash type II socket
▪ HDD	One IDE interface for 2.5" HDD
▪ Network (LAN)	10/100Base-T Ethernet interface
▪ MiniPCI	One type III A/B slot
▪ Dimensions (W x H x D)	310 x 255 x 80 mm
▪ Weight	3.5 kg

LCD Display

▪ Display Type	10.4" TFT LCD
▪ Resolution	SVGA 800 (H) x 600 (W)
▪ Colors	262 K
▪ Pixel Pitch (mm)	0.264 (H) x 0.264 (V)
▪ Contrast Ratio	500:1 Typ.
▪ Viewing Angle (CR 10)	60/60/35/65 (L/R/U/D)
▪ Luminance	230 nits with 5 ~ 100% dimmable brightness control
▪ Lamp Life Time	20,000 hours

Touch Screen (Optional)

▪ Type	Analog resistive	Vandal proof infrared
▪ Light Transmission	75%	91%
▪ Controller	RS-232 interface (COM4)	RS-232 interface (COM4)
▪ Durability	10 million	100,000 hrs

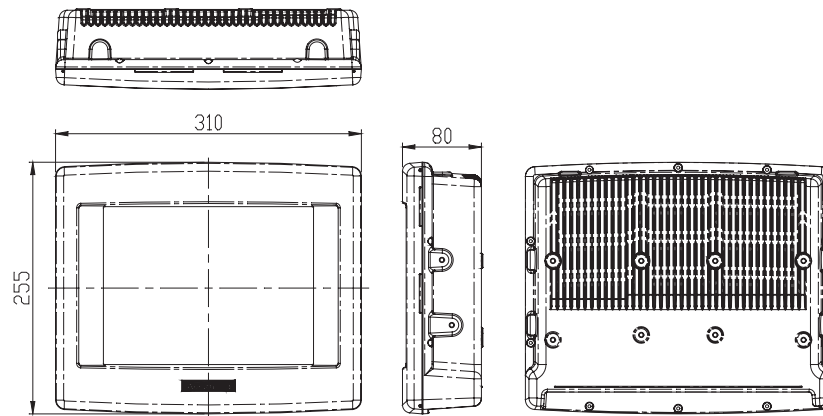
Power Supply

▪ AC Model	
Input voltage	100 ~ 240 V _{AC} , 50/60 Hz, 2 ~ 1.5 A
▪ Default 24 V DC Model	
Input voltage	19 ~ 36 V _{DC}
▪ Optional 12 V DC Model	
Input voltage	10 ~ 18 V _{DC}
▪ Optional 48 V DC Model	
Input voltage	40 ~ 58 V _{DC}

Environmental Specifications

▪ Operating Temperature	0 ~ 45° C (32 ~ 113° F)
▪ Anti-freeze Operating	-30 ~ 45° C (-22 ~ 113° F)
▪ Relative Humidity	10 ~ 95% @ 40° C, non-condensing
▪ Shock	30 G peak acceleration (11 ms duration)
▪ EMC	CE, FCC Class B
▪ Safety	UL, CUL, CE
▪ Vibration	1G

Dimensions



Unit: mm

Ordering Information

Basic Series

- **TREK-755R-A0** 10.4" LCD, DC 24 V, Eden 800 MHz, 256 MB, 40 GB HDD, Resistive touchscreen
- **TREK-755R-CEA0** 10.4" LCD, DC 24 V, Eden 800MHz, 128 MB, 64 MB CF, WinCE .NET 4.2, Resistive touchscreen
TREK-755R-A0 with Windows XP Embedded
- **TREK-755R-XPEA0** TREK-755R-A0 with Windows XP Embedded

Sunlight Readable Series

- **TREK-755V-SA0** 10.4" transfective LCD, DC 24 V, Eden 800 MHz, 256 MB, 40 GB HDD, infrared vandal proof T/S
- **TREK-755V-SCEA0** 10.4" transfective LCD, DC 24 V, Eden 800 MHz, 128 MB, 64 MB CF, WinCE .NET 4.2, Infrared vandal proof touchscreen
- **TREK-755V-SXPEA0** TREK-755V-SA0 with Windows XP Embedded

Anti-freeze Series

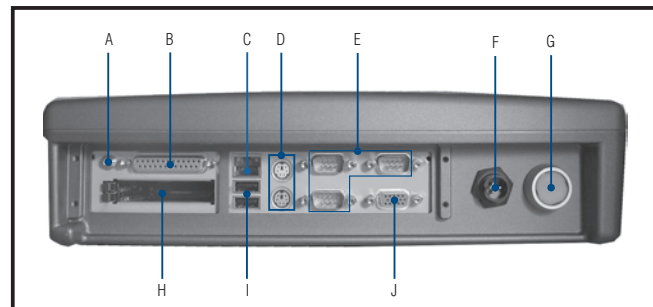
- **TREK-755R-FA0** 10.4" LCD, DC 24 V, Eden 800 MHz, 256 MB, 20 GB HDD, Resistive touchscreen, heater
- **TREK-755R-FCEA0** 10.4" LCD, DC 24 V, Eden 800 MHz, 128 MB, 64 MB CF, WinCE .NET 4.2, Resistive touchscreen, heater
- **TREK-755R-FXPEA0** TREK-755R-FA0 with Windows XP Embedded

Note : Customized XPE installations are available.

Optional Items

- **TREK-UNIARM-01** Universal arm for TREK-725/755/756
- **I/O-CV-01** IP53 I/O cover for TREK-725/755/756
- **RAM-MOUNT-01** VESA plate RAM mount with clamp base
- **RAM-MOUNT-02** VESA plate RAM mount with 2.5" diameter base
- **RAM-MOUNT-03** VESA plate RAM mount with clamp base
- **11 Mbps IEEE 802.11b compliant PCMCIA WLAN card**
MLAN-3325A PCMCIA WLAN Card for USA (Detachable antenna)
MLAN-3325E PCMCIA WLAN Card for Europe (Detachable antenna)
- **TREK-755 with AC power, 12 V DC or 48 V DC power**
(Production upon order)
- **IEEE 802.11b/g MiniPCI or USB WLAN module**
- **GPS receiver module**

Fully Integrated I/O



- A. Line out
- B. SPP/EPP/ECP parallel port
- C. 10/100Base-T Ethernet
- D. PS/2 keyboard and mouse port
- E. 3 serial ports:
RS232 x 2
RS232/422/485 x 1
- F. DC power inlet (IP66)
- G. Power switch (IP65)
- H. PCMCIA Type II x 2 / Type III x 1
- I. 2 x USB v2.0 ports
- J. VGA port

