TREK-755

Vehicle Mounted Computer with 10.4" TFT LCD



Features

- 10.4" TFT LCD, 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 (Win CE .NET 4.2; XP Embedded)
- Flexible expansion capability for 802.11a/b/g, GPS, GPRS, CDMA, GSM
- Flexible power source: Default 24 V_{DC}; with optional 12 V_{DC}, 48 V_{DC}
- 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, freezers, 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. Adopted with wide-temperature tolerance components and heating mechanism, TREK-755 can operate at -30 ~ 50° C.

Specifications

Onboard 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 3.8 kg

LCD Display

 Display Type 10.4" TFT LCD Resolution (H x V) SVGA 800 x 600 Colors 262 K Pixel Pitch (H x V) 0.264 x 0.264 mm

 Contrast Ratio 500:1 Typical **■ Viewing Angle (L/R/U/D)** 60°/60°/35°/65° (CR≥10)

 Luminance 230 nits with 5% ~ 100% dimmable brightness control

 Lamp Life Time 20,000 hours

Touchscreen (Optional)

Tvpe Vandal proof infrared Analog resistive

Light Transmission

Controller RS-232 interface (COM4) RS-232 interface (COM4)

Durability 10 million 100,000 hrs

Power Supply

Default 24 V_{DC} Model

Input voltage 19 ~ 36 V_{DC}

- Optional 12 V_{DC} Model

Input voltage 10 ~ 18 Vnc

- Optional 48 V_{DC} Model

40 ~ 58 V_{DC} Input voltage

Environmental Specifications

• Operating Temperature $0 \sim 50^{\circ} \text{ C}$

■ Anti-freeze Operating -30 ~ 50° C (-22 ~ 122° F)

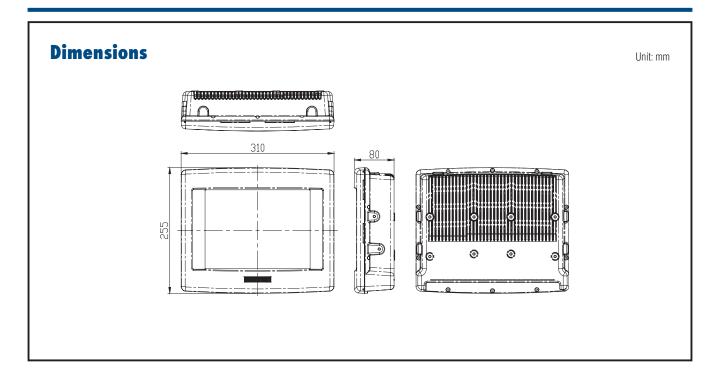
Relative Humidity 10% ~ 95% @ 40° C, non-condensing Shock 30 G peak acceleration (11 ms duration)

EMC CE, FCC Class B Safety UL, CUL, CE

Vibration 1 G (operating with HDD); 3 G (operating with CF card)

Online Download www.advantech.com/products

ADVANTECH Last updated: 22-May-2007



Ordering Information

Basic Models

 TREK-755R-A0E 10.4" LCD, 24 VDC, Eden 800 MHz, 256 MB RAM, 40 GB

HDD, Res. TS

 $10.4\mbox{"}, 24\mbox{ }V_{\mbox{\scriptsize DC}}$ Eden 800 MHz, 128 MB RAM, 128 MB CF, Windows CE .NET, Res. TS TREK-755R-CEA0E

TREK-755R-XPEA0E TREK-755R-A0E with XPE

Sunlight Readable Models

TREK-755V-SA0E TREK-755R-A0E with transflective LCD & IR vandal proof

TREK-755V-SCEA0E TREK-755R-CEA0E with transflective LCD & IR vandal

proof TS

TREK-755V-SXPEA0E TREK-755R-XPEA0E with transflective LCD and IR vandal

proof TS

Anti-freeze Models

TREK-755R-FA0E Anti-freeze model with 2G wide temp. CF card

TREK-755R-FCEA0E TREK-755R-CEA0E Anti-freeze model

Anti-freeze model with XPE on 2G wide temp. CF card TREK-755R-FXPEA0E

Note: Customized XPE installations are available.

Optional Items

■ TREK-UNIARM-01 Universal arm for TREK I/O-CV-01 IP53 I/O cover for TREK

RAM-MOUNT-01 VESA plate RAM mount with clamp base RAM-MOUNT-02 VESA plate RAM mount with 2.5" diameter base

VESA plate RAM mount RAM-MOUNT-03 11 Mbps IEEE 802.11b compliant PCMCIA WLAN card

WLAN-325HAE PCMCIA WLAN card for USA (detachable antenna, RoHS

compliant)

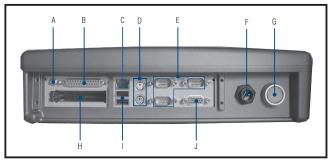
WLAN-325HUE PCMCIA WLAN card for Europe (detachable antenna, RoHS compliant)

= TREK-755 with AC power, 12 $V_{\rm DC}$ or 48 $V_{\rm DC}$ power (Production upon order) = IEEE 802.11b/g MiniPCI or USB WLAN module

• Optional GPS receiver module

Optional quad band GSM/GPRS 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 x serial ports: 2 x RS-232
 - 1 x RS-232/422/485

- F. DC power inlet (IP66)
- G. Power switch (IP65)
- H. 2 x PCMCIA Type II / 1 x Type III
- I. 2 x USB 2.0 ports
- J. VGA port



