

# TREK-756

## Vehicle Mounted Computer with 12.1" TFT LCD



### Features

- 12.1" 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 (WinCE, NET 4.2 and XP Embedded)
- Flexible expansion capability for 802.11a/b/g, GPS, GPRS, CDMA, GSM
- Flexible power source: Default 24 V<sub>DC</sub>; with optional 12 V<sub>DC</sub>, 48 V<sub>DC</sub>
- Optional extreme temperature operating capability

### Introduction

TREK-756 is a fanless vehicle mounted computer that comes with a VIA® Eden™ low-power CPU for high reliability and performance. It is a dedicated vehicle mounted computing platform designed for applications in warehousing and logistics; delivery and fleet management; and container traffic management.

The rugged die-cast aluminum enclosure replaces the fan as it helps dissipate heat. TREK-756 has a special design without ventilation holes that makes the front bezel, back cover and sides comply with IP65/NEMA4 for protection against dust and water. The more exposed I/O ports have been placed in the bottom to protect against vertically falling water. Adopted with wide-temperature tolerance components and heating mechanism, TREK-756 can operate at -30 ~ 50° C. A rich variety of wireless and wide area network interface modules can be integrated for communication and positioning functions.

### Specifications

- **CPU** 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
- **MiniPCI** One type III A/B slot
- **Network (LAN)** 10/100Base-T Ethernet interface; 1000Base-T optional
- **Dimensions (W x H x D)** 310 x 255 x 86 mm
- **Weight** 4.8 kg (with HDD and DDR)

#### LCD Display

- **Display Type** 12.1" 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 (H/V)** 140°/110°
- **Luminance** 400 nits, 5% ~ 100% dimmable brightness control
- **Lamp Life Time** 50,000 hours

#### Touchscreen (Optional)

- **Type** Analog resistive
- **Controller** RS-232 interface (COM4)

#### Power Supply

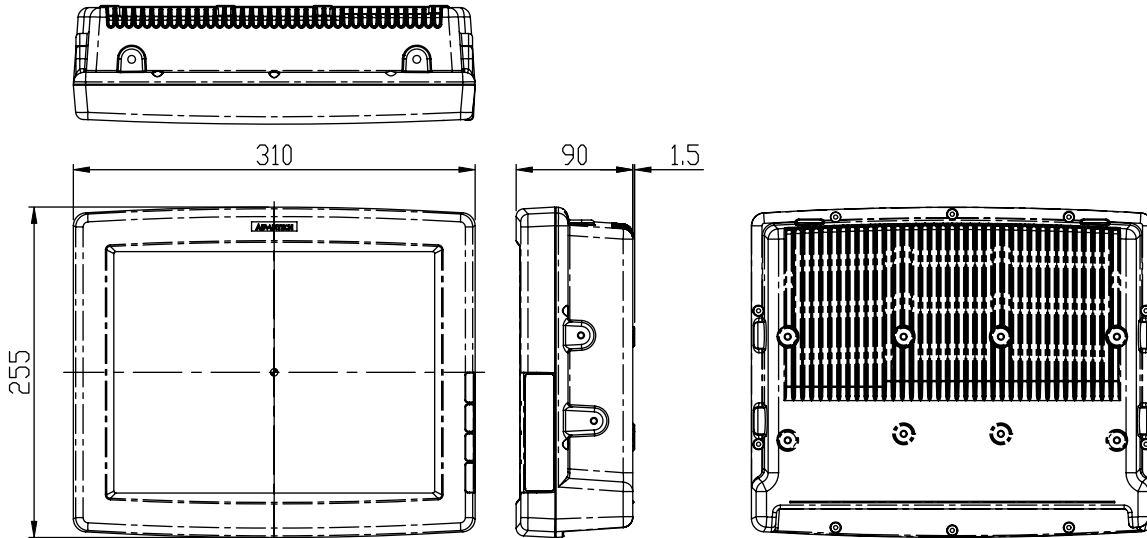
- **Default 24 V<sub>DC</sub> Model**  
Input voltage 19 ~ 36 V<sub>DC</sub>
- **Optional 12 V<sub>DC</sub> Model**  
Input voltage 10 ~ 18 V<sub>DC</sub>
- **Optional 48 V<sub>DC</sub> Model**  
Input voltage 40 ~ 58 V<sub>DC</sub>

#### Environmental Specifications

- **Operating Temperature** 0 ~ 50° C
- **Anti-freeze Operating** -30 ~ 50° 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** 1 G (operating with HDD); 3 G (operating with CF card)

## Dimensions

Unit: mm



## Ordering Information

### Basic Models

- **TREK-756R-A0E** 12.1" LCD, 24 V<sub>DC</sub>, Eden 800 MHz, 256 MB RAM, 40 GB HDD, Res. TS
- **TREK-756R-CEA0E** 12.1" LCD, 24 V<sub>DC</sub>, Eden 800 MHz, 128 MB RAM, 128 MB CF card, Res. TS
- **TREK-756R-XPEA0E** TREK-756R-A0E with XPE

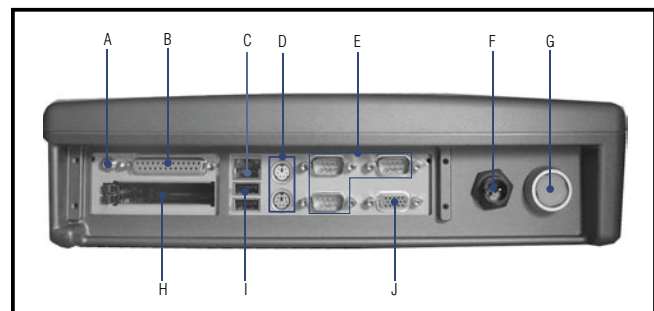
### Anti-Freeze Models

- **TREK-756R-FA0E** TREK-756R-A0E anti-freeze model with 2G CF card
- **TREK-756R-FXPEA0E** TREK-756R-FA0E with XPE
- **TREK-756R-FCEA0E** TREK-756R-CEA0E anti-freeze model

### Optional Items

- **TREK-UNIARM-01** Universal arm for TREK
- **I/O-CV-01** IP53 I/O cover for TREK
- **RAM-MOUNT-03** VESA plate RAM mount
- **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-756 with AC power, 12 V<sub>DC</sub> or 48 V<sub>DC</sub> 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 port
- 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