

# TREK-776

## 12.1" Vehicle Mounted Computer with Pentium® M/Celeron® M Processor



### Features

- 12.1" TFT LCD with touchscreen
- Function keys for 5% ~ 100% brightness control
- Onboard Intel® ULV Celeron® M 600 MHz or Pentium® LV M 1.1 GHz processor
- Rugged aluminum enclosure and fanless design
- VESA standard for flexible mounting kits
- IP65 dustproof and waterproof seals
- Flexible expansion capability for IEEE 802.11a/b/g, GPS, GSM/GPRS
- Stable and wide range 9 ~ 58 V<sub>DC</sub> input, Ignition cold crank (min 6V)
- Extreme temperature range operating capability

### Introduction

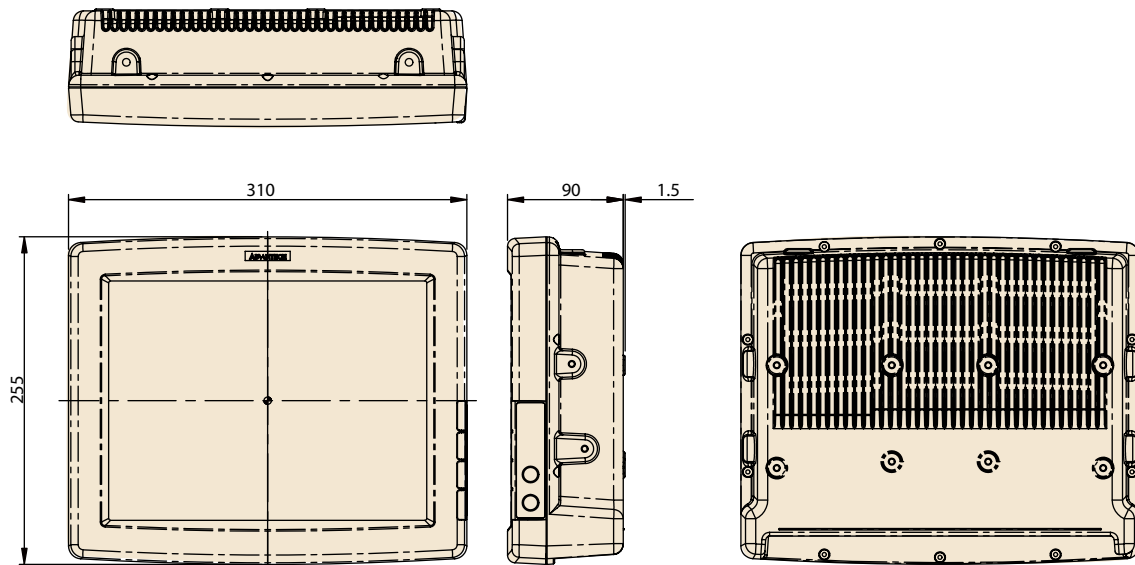
The TREK-776 is a vehicle mounted platform designed to withstand the harshest environments. The TREK-776 has a rich variety of optional wireless and wide area network modules for real-time communication and data capture in warehouses, freezers, docks or container yards. The rugged die-cast aluminum enclosure replaces the fan as it helps dissipate heat. The TREK-776 has a special design without ventilation holes that makes the front bezel, back cover and sides comply with IP65 standards for protection against dust and water. The more exposed I/O ports have been placed on the bottom to protect against vertically falling water. With components that can withstand a wide range of temperatures, and a heater for low temperature operation, the TREK-776 can operate in freezing environments.

### Specifications

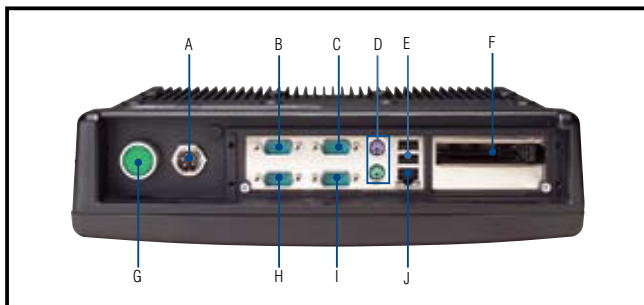
|                              |                        |                                                                                                                                                             |
|------------------------------|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Processor System             | CPU                    | Onboard Intel ULV Celeron M 600 MHz, 512k L2 cache/LV Pentium M 1.1 GHz, 1 MB cache                                                                         |
|                              | Chipset                | Intel 855GME and ICH4-M                                                                                                                                     |
|                              | System Memory          | Two 184-pin DIMM sockets, up to 2 GB DDR 333 SDRAM (Win CE supports up to 512 MB DDR)                                                                       |
|                              | Storage                | One IDE interface for either one type I/II CompactFlash card or one 2.5" HDD                                                                                |
|                              | Network (LAN)          | 10/100 Mbps Ethernet interface; 1000 Mbps optional                                                                                                          |
|                              | MiniPCI                | One type III A/B slot                                                                                                                                       |
|                              | PCMCIA                 | 2 x PCMCIA Type II/1 x Type III *                                                                                                                           |
|                              |                        | * When using Win CE, slot A is eliminated, and only PCMCIA slot B is available.                                                                             |
| Graphics                     | Dimensions (W x H x D) | 310 x 255 x 90 mm (12.20" x 10.04" x 3.54")                                                                                                                 |
|                              | Weight                 | 4.38 kg (10.58 lb)                                                                                                                                          |
|                              | Display Type           | 12.1" color TFT LCD                                                                                                                                         |
|                              | Resolution (H x V)     | XGA 1024 x 768                                                                                                                                              |
|                              | Viewing Angle (H/V)    | 160°/160°                                                                                                                                                   |
|                              | Luminance              | 450 cd/m <sup>2</sup> , 5% ~ 100% dimmable brightness control                                                                                               |
| Touchscreen                  | Lamp Life Time         | 50,000 hours                                                                                                                                                |
|                              | Type                   | Analog resistive                                                                                                                                            |
| Power Supply                 | Controller             | USB interface                                                                                                                                               |
|                              | Input Voltage          | 9 ~ 58 V <sub>DC</sub>                                                                                                                                      |
|                              | Minimum Input Voltage  | 6 V <sub>DC</sub> , supports cold crank, low battery shut-down protection threshold (optional)                                                              |
|                              | Ignition On            | Power on delay, default 1 second                                                                                                                            |
|                              | Ignition Off           | Yes                                                                                                                                                         |
| Environmental Specifications | Hard off Delay         | 30 seconds                                                                                                                                                  |
|                              | Operating Temperature* | 0° C ~ 40° C (32° F ~ 104° F) for HDD<br>-30° C ~ 60° C (-22° F ~ 140° F for industrial grade CF card or HDD that operates at a wide range of temperatures) |
|                              | Relative Humidity      | 10% ~ 95% @ 40° C, non-condensing                                                                                                                           |
|                              | Shock                  | 30 G peak acceleration (11 ms duration)                                                                                                                     |
|                              | EMC                    | CCC, CE, FCC Class B                                                                                                                                        |
|                              | Safety                 | CCC, UL, CUL, CE                                                                                                                                            |
|                              | Vibration              | 1 G (operating with HDD); 3 G (operating with CF card)                                                                                                      |

## Dimensions

Unit: mm



## Fully Integrated I/O



- A: DC Power Inlet  
 B: COM4 (RS-232/422/485)  
 C: COM2 (RS-232)  
 D: PS/2 Keyboard and Mouse Port  
 E: 2 x USB 2.0  
 F: PCMCIA Type II x 2 / Type III x 1  
 G: Power Switch  
 H: COM3 (RS-232/422/485)  
 I: COM1 (RS-232)  
 J: 10/100 Mbps Ethernet

## Ordering Information

| Part Number      | Description                                                            |
|------------------|------------------------------------------------------------------------|
| TREK-776R-A0E    | TREK-776 with ULV C-M 600 Hz CPU, T/S, HDD holder                      |
| TREK-776R-CEA0E  | TREK-776 with ULV C-M 600 Hz CPU, T/S, 128 MB DDR, 128 MB CF, WinCE5.0 |
| TREK-776R-SA0E   | TREK-776R-A0E sunlight readable model                                  |
| TREK-776R-XPEA0E | TREK-776R-A0E with 512 MB DDR, 40 G HDD, XPE                           |
| TREK-776R-A1E    | TREK-776 with LV -M 1.1 GHz CPU, T/S, HDD holder                       |

## Accessories

| Part Number    | Description                                                  |
|----------------|--------------------------------------------------------------|
| TREK-UNIARM-01 | Universal arm                                                |
| I/O-CV-01      | IP53 I/O cover                                               |
| I/O-CV-02      | IP54 I/O housing                                             |
| RAM-MOUNT-03   | VESA RAM mount w/3.68" DIA., 2.25" ball                      |
| RAM-MOUNT-05E  | VESA RAM mount w/clamp base, 2.25" ball                      |
| WLAN-325HJE    | 11 Mbps IEEE 802.11b compliant PCMCIA WLAN Card for Japan *  |
| WLAN-325HAE    | 11 Mbps IEEE 802.11b compliant PCMCIA WLAN Card for USA *    |
| WLAN-325HUE    | 11 Mbps IEEE 802.11b compliant PCMCIA WLAN Card for Europe * |
| 1757000997     | ADAPTER AC 100-240 V 90 W (19v) W/PFC                        |

\* Detachable Antenna, RoHS compliant

## Power Code Options

| Part Number | Description          |
|-------------|----------------------|
| 1700001524  | 3-pin 180 cm, USA    |
| 170203183C  | 3-pin 180 cm, Europe |
| 170203180A  | 3-pin 180 cm, UK     |

## Optional Items

| Part Number | Description                                     |
|-------------|-------------------------------------------------|
| 9668TREK00E | Quad band GSM/GPRS module & GPS receiver module |
| 9668TREK01E | GPS receiver module (COM3)                      |
| 9668TREK02E | Quad band GSM/GPRS module (COM4)                |
| 9668TREK03E | CF card slot kit                                |
| 9668TREK08E | IEEE 802.11b/g MiniPCI WLAN module              |

Please order optional items via BTOS service or contact our sales