

TREK-725

10.4" TFT Telematics Terminal with Intel XScale® CPU and Windows® CE .NET 5.0

Coming soon



CE FCC

Features

- Low power, high performance with Intel XScale® IXP 420 533MHz processor
- IP65 fully-sealed rugged aluminum housing at fanless design
- Easy interface access with 4-Wire touch screen
- Customer programmable function keys for flexible application
- Rich industrial I/O interface including CAN Bus, COM ports, Ethernet, and wireless communication module for option
- Optional system backup battery design for low power management
- Design reserve optional built-in RF modules expansion I/F (GPS/GPRS/GSM/Wi-Fi) with driver ready solution
- Default 24V to 48V power source with 12V optional

Introduction

The TREK-725 Series integrates Intel's RISC XScale® IXP420-533 MHz processor and Windows® CE .NET 5.0. It is designed to provide customers an in-vehicle panel computer which has well-connectivity capability and robust aluminum chassis. In TREK-725, Advantech provides compatible WLAN, GPRS/GSM, GPS wireless solutions and rich connectivity like CAN bus, COM, Ethernet and USB host/ Client. TREK-725 also has programmable function keys on front bezel for customer's application program and hot-keys for adjusting LCD brightness, backlight on/off and page up/down functions. In addition, TREK-725 can operate at voltage input range from 24V to 48V for industrial vehicle and has build-in optional system backup battery pack which can support TREK-725 to work alone about 3 hours*. With the ultra low power benefit by XScale & WinCE 5.0 solution, the TREK-725 position is telematics terminal with well-connectivity capability and robust construction design. It is an ideal cost-efficiency telematics solution in industrial vehicle-based application such as trucks, forklifts, and crane.

* Battery working time test condition : no I/O device and RF module connect to Trek-725 with WinCE O.S. running only.

Specification

System Kernel

- **CPU** Intel IXP-420 533MHz
- **OS** Windows CE .NET 5.0 professional version
- **SDRAM** 64 MB SDRAM on board (extendable to 128MB or 256 MB)
- **Flash** 32 MB on board for image & customer AP (extendable to 64MB)
- **RTC** HT1381, Backup by 65mAh Rechargeable Li-ion battery

Display

- **LCD** AUO 10.4" SVGA TFT LCD
- **Touch Screen** 4-wire resistive touch screen
- **VGA Chip** SM501 with 8 MB VRAM

Interface

- **MiniPCI** Yes (Driver verified ready for specific Wi-Fi 801.11b/g module)
- **PCMCIA** 2 x PCMCIA slot type II for CF card/ Wi-Fi module
- **Storage** Interface ready for CF slot or 2.5" HDD
- **CAN Bus** 1 x CAN Bus by DB9 connector
- **COM Port** 2 x full function transceiver level RS232 by external DB9 connector (COM1, COM2)
2 x TTL level RS232 by internal pin-header, reserve for GPRS/ GSM module
1 x TTL level RS232 by internal pin-header, reserve for GPS module
- **USB** 2 x USB 2.0 host; 1 x USB 1.1 client
- **Ethernet** 1 x 10/100Base-T
- **Function Key** 6 x function keys for customer configuration
- **Hot Key** LCD brightness adjusting, LCD backlight On/Off, Page up/down and enter key

Audio

- **Mic-in** 1 x Mic-in by jack
- **Speak Out** 1 x Speak out by jack

Power

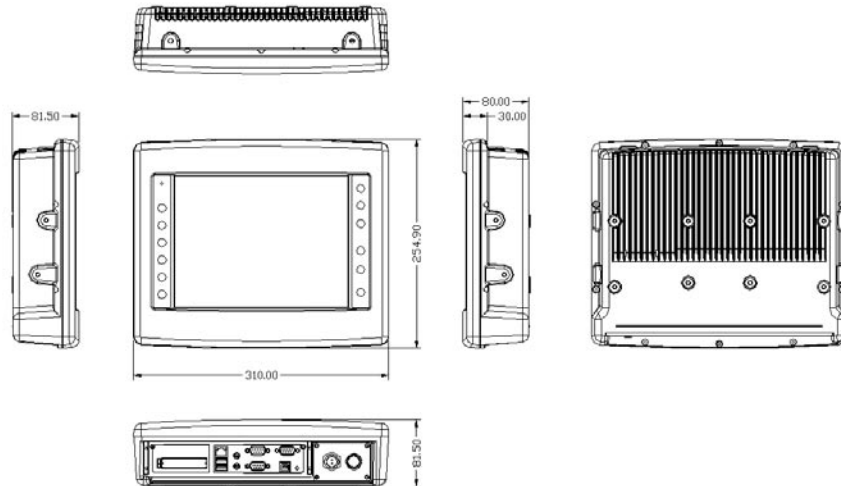
- **DC-in Range** DC 24-48V, 12V as factory default optional
- **Power Input Protection** Over current protection and Electric pole reverse protection by 3A fuse
- **Power Switch** 1 x water-proof power on/off switch
- **Power Connector** 1 x water-proof power connector
- **SW Reset** Yes (thru system configurator)
- **HW Reset** Yes (push button in back side)
- **Battery** Optional battery pack (4S1P 2200mAh li-ion rechargeable type)

Environmental & Physical

- **Operating Temp** 0 ~ 50°C for TREK-725-CEA0
-30 ~ 50°C for TREK-725R-FCEA0 (Preliminary)
- **Storage Temp** -20 ~ 60°C
- **Vibration/ Shock (preliminary)** With HDD: Random Vibration: 1G
With HDD: Sine Vibration: 2G
With HDD: Shock: 30G
With CF/on board flash: Random Vibration: 6G
With CF/on board flash: Sine Vibration: 6G
With CF/on board flash: Shock: 50G
- **Water/Dust Resistance** IP65 for front bezel
- **Certification** FCC/ UL/ CE
- **RF Antenna** Reserve 2 antenna position for RF module

Dimensions

Unit: mm

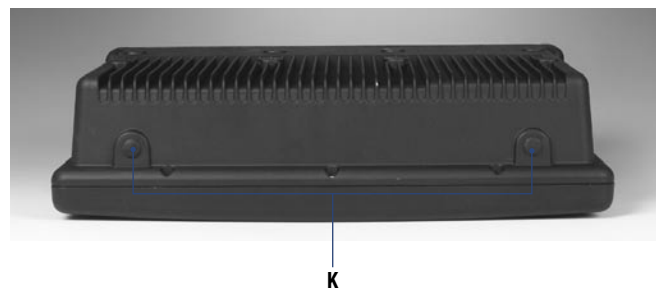
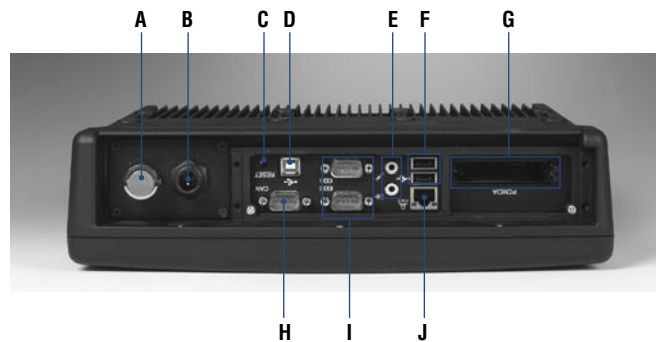


Ordering Information (Preliminary)

- **TREK-725R-CEA0** 10.4" LCD, XScale IXP420 533MHz with WinCE 5.0 & Res.TS
- **TREK-725R-SCEA0** TREK-725 with sunlight-readable LCD. (Preliminary)
- **TREK-725R-FCEA0** TREK-725 anti-freezer model. (Preliminary)

Packing List (Preliminary)

- TREK-725 (without RF module and antenna)
- Windows® CE .NET end user license agreement (for Windows® CE .NET version)
- CD-ROM
 - 1) Readme.txt
 - 2) User's manual
 - 3) Data Sheet
 - 4) Upgrade utility
 - 5) Microsoft ActiveSync Version 3.7 installation files (for Windows® CE.NET)
 - 6) Windows® CE.NET 5.0 platforms SDK (for Windows® CE.NET)
- Warranty Card
- 1 x USB ActiveSync cable
- Water-Proof power cable



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|----------------------|---|
| A. Power switch | G. 2 x PCMCIA Type II |
| B. Power DC-input | H. CAN Bus |
| C. HW reset | I. 2 x RS-232 |
| D. USB 1.1 client | J. 10/100 Base-T Ethernet |
| E. Mic-in, Speak-out | K. 2 x antenna position reserve for RF module |
| F. 2 x USB2.0 Host | |