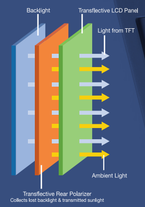
## Extended Models for Specific Environments

### Sunlight Readable Option for Outdoors

Integrated with transflective TFT LCD and vandal proof infrared touchscreen, Advantech's sunlight readable vehicle mounted computing series provides reliable solutions for outdoor applications that require extreme durability and vivid display quality in outdoor and rugged environments.




Benefits

- *Readable in direct sunlight*
- *Low power consumption and low heat generation*
- *Uses ambient light to brighten the display*
- *Infrared touchscreen for high clarity and high durability*
- *Vandal proof infrared touchscreen that continues to work even if scratched*

### Computing at Frigid Temperatures

Advantech's anti-freeze vehicle mounted computing series have an integrated heater to enable safe use at temperatures as low as -22° F / -30° C. Example environments include freezers, cold stores and cold outdoor areas.

Benefits

- *Safe operation down to -22° F / -30°C*
- *Fulfill computing tasks in sub-zero conditions.*

| Specifications | | TREK-755 | TREK-755 sunlight readable model | TREK-755 anti-freezer model | TREK-756 |
|---|---|---|---|---|---|
| Processor | | On-board VIA Eden 800 MHz | | | |
| OS | | Supports Windows® 2000/XP; Windows® CE.NET; Windows® XP Embedded and Linux® compliant | | | |
| Memory | Size | Up to 2GB DDR SDRAM | | | |
| | Module type | 184 pin DIMM x 2 | | | |
| Second Cache Memory | | On-die 64 KB | | | |
| Storage | | One Internal CompactFlash Typt I/II socket for CF card and One IDE Interface for HDD | | | |
| Display | Size/Type | 10.4" TFT LCD | 10.4" transflective TFT LCD | 10.4" TFT LCD with heater | 12.1" TFT LCD |
| | Max.Resolution | 800 x 600 | | | 800x600 |
| | Max.Colors | 256 K or above | | | |
| | Brightness (cd/m2) | 230 | | | 400 |
| | View Angle | 90 | | | 140/110 |
| | Backlight MTBF | 25,000 hrs. | | | 50,000 hrs |
| VGA | Chipset | VIA CLE266 | | | |
| | VRAM | 8~64 MB (SMA) | | | |
| Touch screen | Technology | Analog Resistive | Vandal proof IR | Analog Resistive | Analog Resistive |
| | Control port | RS-232 interface | | | |
| Hot Key / Function Key | | Option | | | |
| I/O Ports | | 2 x RS-232 (COM1;COM3), 1 x RS-232/422/485 (COM 2)<br>1 x Line-out<br>1xParallel port (*optional for TREK-756),<br>2 x USB v2.0, 1 x PS/2 KB, 1 x PS/2 Mouse<br>1 x VGA port | | | |
| Expansion | | one Mini PCI TypeIII A/B slot | | | |
| | | PCMCIA Type II x 2 / III x 1 | | | |
| Network (LAN) | | 10/100 Base-T (Ethernet) | | | |
| GPS | | Optional | | | |
| Power | | Typical 24V DC | | 24V DC | Typical 24V DC |
| | | Typical 12V DC (Optional) | | | Typical 12V DC (Optional) |
| | | Typical 48V DC (Optional) | | | Typical 48V DC (Optional) |
| | | 100-240V AC@50/60MHz | | | 100-240V AC@50/60MHz |
| OperatingTemperature | | 0~45° C (32~113° F) | | -30~45° C (-22~113° F) | 0~45° C (32~113° F) |
| Certificate | | UL, CE, FCC Class B, CSA | | | |
| Dimensions (W x H x D) | | 310 x 255 x 80 mm | | | 310x255x86 mm |
| Weight | | 3.8 Kg | | | 4.8 kg |

TREK-UNIARM-01
Universal arm

RAM-MOUNT-01
VESA plate RAM mount with clamp base

RAM-MOUNT-02
VESA plate RAM mount with 2.5" DIA. base

RAM-MOUNT-03
VESA plate RAM mount with 3.68" DIA. base

MLAN-3325A/E
Wireless LAN Card (FCC/CE)

| Part Number | Description |
|---|---|
| TREK-756R-A0E | 12.1" LCD, DC24+Eden800+256MB DDR+40G HDD+Resistive touchscreen |
| TREK-756R-CEA0E | 12.1" LCD, DC24+Eden800+128MB DDR+128MB CF+WinCE.NET4.2+Resistive touchscreen |
| TREK-756R-XPEA0E | TREK-756R-A0E with XPE image |
| TREK-755R-A0E | 10.4" LCD, DC24+Eden800+256MB DDR+40G HDD+Resistive touchscreen |
| TREK-755R-CEA0E | 10.4" LCD, DC24+Eden800+128MB DDR+128MB CF+WinCE.NET4.2+Resistive touchscreen |
| TREK-755R-XPEA0E | TREK-755R-A0E with XPE image |
| TREK-755V-SA0E | TREK-755R-A0E with sunlight readable LCD and infrared vandal proof touchscreen |
| TREK-755V-SCEA0E | TREK-755R-CEA0E with sunlight readable LCD and infrared vandal proof touchscreen |
| TREK-755V-SXPEA0E | TREK-755V-A0E with XPE image |
| TREK-755R-FA0E | TREK-755R-A0E anti-freeze model with 2G wide temperature CF card |
| TREK-755R-FCEA0E | TREK-755R-CEA0E anti-freeze model with 128MB wide temperature CF card |
| TREK-755R-FXPEA0E | TREK-755R-FA0E with XPE image |
| TREK-UNIARM-01 | Universal arm |
| I/O-CV-01 | IP65 Stainless I/O Cover |
| MLAN-3325A | Wireless PCMCIA LAN Card (Detachable Antenna) for USA |
| MLAN-3325E | Wireless PCMCIA LAN Card (Detachable Antenna) for Europe |
| 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 3.68" diameter base |

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# Vehicle Mounted Computing Platforms

## Streamlined On-site Data Processing

- Warehousing & Logistics
- Delivery & Fleet Management
- Container Traffic Management

*Trusted ePlatform Services*

ADVANTECH

Microsoft Windows Embedded 2004 Partner of the Year Independent Hardware Vendor

RoHS COMPLIANT 2002/95/EC

CE FC

# *Maximize On-the-go Productivity and Capture Real-time Information*

Advantech Vehicle Mounted Computing Platforms provide industrial-grade computing solutions for heavy duty vehicles such as forklifts, trucks, trailers, tractors, and/or cranes. Full product offerings include x86 powered computers for comprehensive data processing. Optional wireless modules can be integrated for instant data collection and real-time communication, accelerating operations in depots, warehouses, ports, distribution centers, lumberyards, and everywhere else you do business.

Vehicle Mounted Computing Platforms

## Anti-Vibration
The rugged and vibration-absorbing design allows for safe and secure data storage and retrieval.

## IP65 Sealed for Water Resistant and Dust Proof
The rugged enclosure has no ventilation holes and meets IP65 standards, so the front and back panels can resist dust and water penetration.

## Expansion Ability for Wireless Communications
IEEE 802.11b/g GPS, GPRS, GSM, and CDMA options can be integrated by the customer to deliver real-time data transition, navigation, and/or communications. Optional external antenna can be integrated to extend the communication coverage.

## Embedded OS Support
Windows® CE, Windows® XP Embedded, or Linux® are supported in addition to Windows® 2000, and XP.

## Aluminum Enclosure with Fanless Design
Aluminum enclosure is durable and great for heat dissipation. In addition, fanless design and low-power CPUs enable lower power consumption and extend charging cycle for battery.

## Flexible and Easy to Mount
Integrated VESA mounting holes and features make any kind of mounting option a breeze. Universal or RAM mounting kits are the perfect choice for securing vehicle mounted computer onto lift trucks.

## Aluminum Enclosure with Fanless Design
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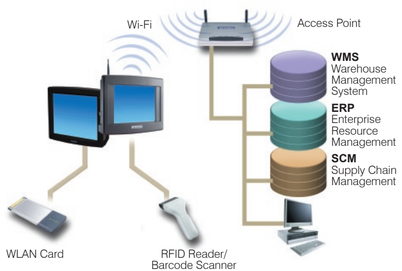
## Various Power Sources
For usage inside the commercial vehicles, TREK series offer various power modules to accommodate different power source. Besides the default 24V DC model, we also offer optional 12V DC, 48V DC, and 100~240V AC power supplies for customer to choose from.

## Warehousing & Logistics

Warehouse and logistic center inventory must be synchronized with the on-site operating staffs. By installing Advantech's vehicle mounted computers with built-in wireless module, forklift can obtain up-to-date information from the warehouse management systems, to find and identify products as the market demands.

Advantech's vehicle mounted computer can be integrated with a differential GPS receiver. This can transmit the precise location of machinery to enhance overall operations by tracking and organizing resources.

### Benefits
- Optimize workflow and management
- Reduce cycle time and overall operating cost
- Connect seamlessly to ERP & WMS system applications
- Improve the accuracy and speed of fulfilling customers' orders




## Delivery & Fleet Management

Delivering the right products to the right customers quickly and cost-effectively has become a critical tasks. In the meanwhile, managing trucks and associated shipments in real time are crucial for fleet operating firms. Vehicle mounted computers allow direct store delivery personnel to quickly deliver goods and manage on-truck inventory. With instant visibility and tracking system by GIS (Geographic Information System), fleet operating firms can streamline delivery operations, minimize downtime, and optimize asset performance.

### Benefits
- GPS to keep track of your trucks and maximize fleet productivity
- Optimize vehicle use by leveraging the same data used to plan and manage delivery operations
- Streamline yard activities by keeping trucks and shipments moving efficiently into and out of your yard


## Container Traffic Management

Cranes in busy container terminals handle thousands of containers everyday. With this volume of traffic there is a great need to ensure operating reliability and data integrity in order to maintain accurate container information and location.

In this diverse and hyper-dynamic environment, adopting a vehicle mounted computer with wireless technology can help provide accurate and secure container information, real-time inventory, communications, and tracking capabilities.

### Benefits
- Provide solutions to maximize yard space utilization
- Eliminate unproductive container moves to expand overall yard operations
- Eliminate equipment idle time to increase handling capacity