IVT 1100

Main Features

- 6.95" WVGA TFT LCD Monitor with resistor touch screen
- Built-in Intel® Atom™ Dual Core E3825 1.33GHz
- Double DIN and fanless design
- Front button for easy operating
- Support GPS/GPRS/GSM tracker function

- Built-in GPS (Option: Dead Reckoning Support)
- Variety wireless communication options (Support LTE)
- Dual CAN bus support and support option OBDII (SAE J1939)
- Wide Range DC input from 9 ~ 36V
- SAE J1113, ISO7637-2 and SAE J1455 compliance for power design

Product Overview

IVT 1100, a new generation 6.95-inch in-vehicle mount computer with latest technology in the in-vehicle infotainment segment.

The feature-rich IVT 1100 supports the Tizen In-Vehicle Infotainment (Tizen IVI) software platform, allowing automakers to immediately turn a vehicle into an information desk, a media service center, a Wi-Fi hotspot and even a mobile diagnostic center.

IVT 1100 is equipped with two mini-PCIe expansions to support 3G/4G networks, Wi-Fi tethering, and Bluetooth pairing with mobile devices. In addition, the IVT 1100 is built with Intel® Atom™ processor E3825 with integrated Intel® HD Graphics, built-in GPS and 3-axis sensors, and supports for CAN bus protocols to provide ideal balance of performance and power consumption.

IVT 1100 is designed to ensure reliable operation even when exposed to a temperature range of -20°C to 50°C and can resist vibration and shock based on military standard 810G. With its rich feature set and built-in robust nature the IVT 1100 is a complete solution for developing from concepts of the connected vehicle all the way through to reality.

Specifications

General
- Cooling System: Fanless
- Enclosure: Metal with aluminum die casting heatsink
- Mounting: Double DIN
- Three fakra type antenna connectors of WWAN/Radio/GPS
- Two SMA female type antenna connector of Wi-Fi
- 3-axis accelerometer G-sensor
- Power Input: 9 ~ 36VDC input with Ignition
- Power Consumption: TBD
- Dimension: 178mm (W) x 100mm (H) x 187.15mm (D)(7" x 3.9" x 6.4")
- Weight: TBD

LCD Panel
- 6.95-inch TFT LCD Panel with LED Backlight
- 800 x 480 pixels (WVGA)
- Brightness: 450 cd/m² (typical)
- Contrast ratio: 500:1 (typical)

Touch Screen Sensor
- 4-wire resistant touch
- Anti-glare coating surface
- Transmission rate: 78 ± 3%

CPU & Chipset
- Intel® Atom™ Dual Core E3825 1.33GHz

Memory
- One 204-pin DDR3L 1600MHz SO-DIMM slot (up to 4GB)
  - Default 2GB

Expandable Storage
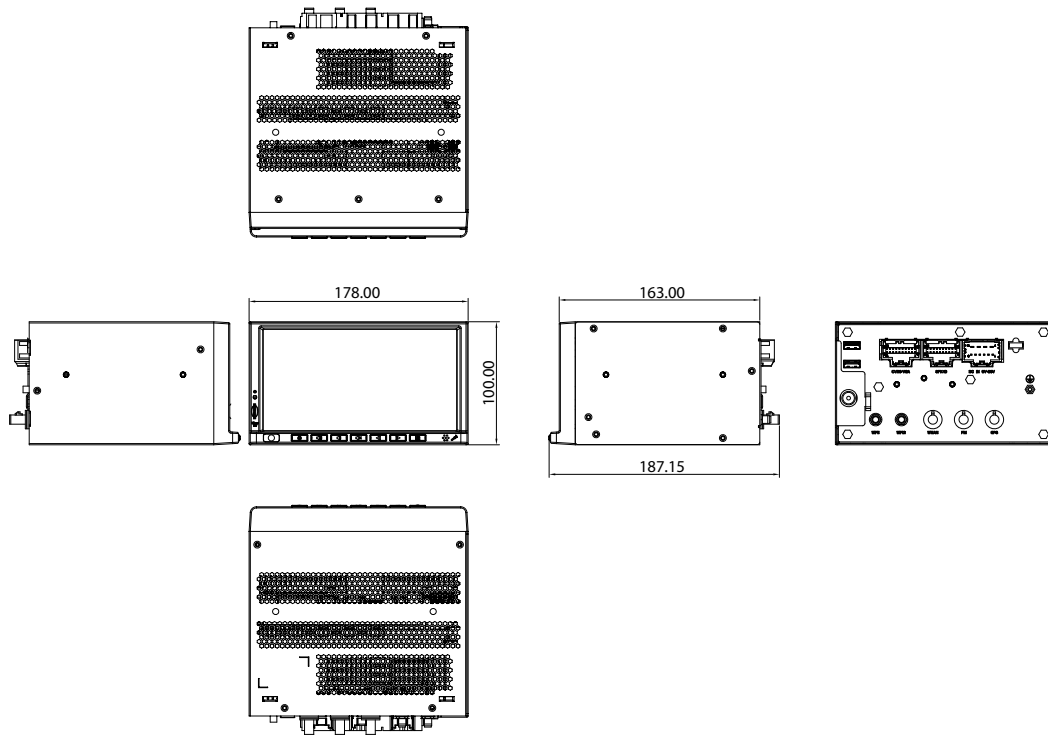- 1 x SATAIII mSATA Slot (available option 16G and 32G)

Expansion
- 1 x Half mini-PCIe socket (PCIe + USB) for WLAN and BT option
- 1 x mini-PCIe socket ((USB + UART) for WWAN option)

I/O Interface-Front
- 1 x power button (with LED)
- 2 x volume button (with LED)
- 1 x mute, 2 x auto scan for FM (with LED, forward, back)
- 1 x Quick Manu button (with LED)
- Light Sensor
- Internal Mic-in
- 1 x Micro SD socket
- 1 x Reset button

NEXCOM

Dimension Drawing

178.00

100.00

163.00

187.15

I/O Interface-Rear
- 3 connectors with lock for
  - 1 x power/ignition input
  - 1 x eCall event button (only for uBlox 3G module)
  - 1 x CAN Bus 2.0B
  - 4 x CVBS Video-In (for rear/side camera, AV input)
  - 4 x 20W audio ouput. Front right, front left, rear right and rear left
  - 1 x Line-in
  - 1 x VGA
- 1 x Fuse 15A
- 2 x USB 3.0

Communication Module
- 1 x On board GPS module
- 1 x WLAN or Bluetooth module for optional
- 1 x WWAN module for optional

Power Management
- Selectable boot-up & shut-down voltage for low power protection
- HW design ready for 8-level delay time on/off at user's self configuration
- Power on/off ignition, software detectable
- Support S3 and S4 suspend mode; wake on RTC and SMS

Operating System
- Windows 8 Professional, WES8
- Windows 7, WES7
- Linux Tizen (kernel V3.2.0)

Environment
- Operating temperatures: Ambient with air -20°C to 50°C
- Storage temperatures: -30°C to 80°C
- Relative humidity: 10% to 95% (non-condensing)
- Vibration (random): 2g @5 ~ 500Hz
- Vibration
  Operating: MIL-STD-810G, 514.6 Procedure 1, Category 4
  Storage: MIL-STD-810G, 514.6 Procedure 1, Category 24
- Shock
  Operating: MIL-STD-810G, Method 516.6, Procedure I, trucks and semi-trailers=20g

Crash hazard: MIL-STD-810G, Method 516.6, Procedure V, ground equipment=75g

Power Design & Protection
- Load dump and inductive load protection
- Cold cranking protection
- Transient voltage protection
- Electrostatic discharge protection

Standards/Certifications
- EMC
  - CE, FCC class B
- Power
  - SAE J1113
  - SAE J1455
  - ISO 7637-2
- Safety
  - EN 60950-1 LVD

Ordering Information

- **IVT 1100 (P/N: TBD)**
  6.95" In-vehicle Infotainment Computer with Touch Screen and Multifunctional Tracker and Intel® Atom™ Dual Core E3825 1.33GHz processor with 2GB DDR3L, GPS module and GPS antenna

- **Bundle Accessories**
  GPS/ GLONASS 5M Antenna
  Driver CD