# CANBUS Rugged Tablet PC
# ID83
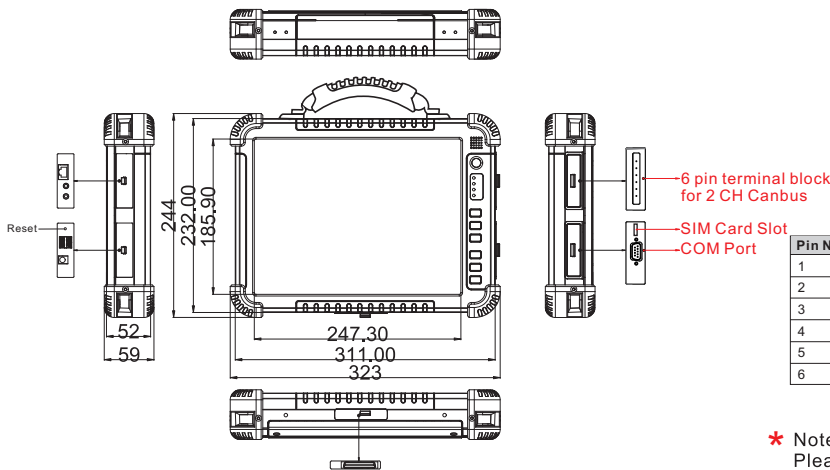
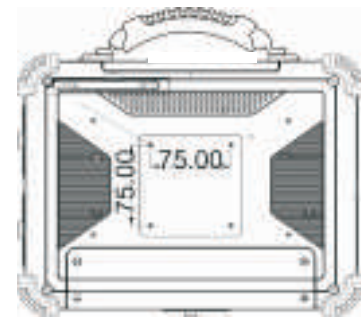**Model : R12ID8M-RTM7CA**   **Intel® Atom Dual Core N2800 1.86GHz**

## Features:

- 12.1" High Quality 1024 x 768 Resolution LED Panel
- Intel® Atom Dual Core N2800 1.86GHz with Intel® Nm10 Chipset
- 1 x SODIMM, Max. 4GB DDR3 (Default 2GB)
- Alu-Mg Alloy Housing with Protection Rubber for MIL-STD-810G Shock, Vibration and Drop
- Built-in Wireless / Bluetooth and GPS module
- Support 2 channels isolated CANBUS and 1 COM port for RS 232, 1 x SIM card slot
- Ergonomic Design with Handstrip and Carry Belt Accessories (for Optional)
- 6cell, 5200mAh Lithium-Ion Battery Pack

## Mechanical Design Drawings



Reset

244
232.00
185.90

52
59

247.30
311.00
323

6 pin terminal block for 2 CH Canbus
SIM Card Slot
COM Port

75.00
75.00

| Pin No. | Symbol | Description |
|---|---|---|
| 1 | GND_ISO_A | A port Isolated Ground |
| 2 | CANL_1_CONN | A port CAN Bus Low-level |
| 3 | CANH_1_CONN | A port CAN Bus High-level |
| 4 | GND_ISO_B | B port Isolated Ground |
| 5 | CANL_2_CONN | B port CAN Bus Low-level |
| 6 | CANH_2_CONN | B port CAN Bus High-level |

**✱** Note: this is a simplified drawing and some components are not marked in detail. Please contact our sales representative if you need further product information.

## System Specification

| | |
|---|---|
| Processor | : Intel® Atom Dual Core N2800 1.86GHz |
| BIOS | : AMI System BIOS |
| System Chipset | : Intel® NM10 Chipset |
| System Memory | : 1 x SODIMM, Max 4GB DDR3 (Default 2GB) |
| LAN Controller | : 10/100/1000 LAN |
| Storage | : 64GB mSATA SSD (Default),(Max.up to 256GB) |
| Audio | : Audio out for headset, Micro in for microphone jack, 1.5W Speaker(Internal) |

## Wireless Communication

| | |
|---|---|
| WLAN&Bluetooth | : 802.11a/b/g/n + 2T2R & Bluetooth 4,0+Class I combo card(Default) |
| WWAN | : Built-in 3G module (Optional) |
| GPS | : U-Blox Neo-6Q |

## Mechanical and Environment

| | |
|---|---|
| Dimensions (W x L x H) | : 311 x 232 x 52 mm |
| Weight | : 3Kg(w/o accessories) |
| Operation Temperature | : -20~60 (AC mode), -10~50 (Battery mode) |
| Operation Humidity | : 10% to 90% (non condensing) |
| IP Proof | : IP54 |
| Mounting | : VESA mount, Vehicle mount |
| Shock* | : MIL-STD-810G M516.6 |
| Vibration* | : MIL-STD-810G M514.6 |
| Drop* | : MIL-STD-810G M516.6, 4 Ft, Free to Concrete |
| Certitications | : CE, FCC ClassB, MIL-810G for Vibration / Shock / Drop / Temp. |

## Display Specification

| | |
|---|---|
| Pixel Number | : 1024 x 768 |
| Brightness | : 700cd/m$^2$ (typ.) |
| Touch (Default) | : 4 Wire Resistive |

## I/O Connectors

| | |
|---|---|
| Left I/O Port | : 1 x LAN |
| | 2 x USB 2.0 |
| | 1 x Audio out, Mic-in Jack |
| | 1 x Power Input Jack |
| | 1 x Reset Button |
| Right I/O Port | : 1 x 6 pin Terminal Block for 2 CH CANbus, 1 x COM port , 1 x SIM card slot |
| Downside Docking | : 1 x Docking connector for expansion 4x USB, and Docking Stand Power input |

## In front Control

| | |
|---|---|
| Control Button | : 1x Menu Key control Brightness Volume and Battery Status |
| LED indicator | : Power On/ Off , Battery , HDD Access , Wifi On / Off |

## Power Management

| | |
|---|---|
| Power input | : 19V DC |
| Power consumption | : 12.5W typ. |
| Battery | : Li-Ion battery 5200mAh, 11.1V |
| Battery Hour | : 7 hrs* |
| Adapter | : 100-240V, 50-60Hz, 19V DC |

*Note: Measured at dimming LCD brightness. Varies depending on the usage conditions, or when an external device is attached.