



Main Features

- On-board Intel® Atom Dual Core D525 processor
- One DDR2 SO-DIMM socket, DDR2 800 2G memory module support max.
- 1 x M12 LAN port
- 2 x USB2.0 / 1x VGA / 2x RS232
- 1 x external CF Socket and one external SIM card holder
- 24V Isolated DC input
- Support Ignition Signal for delay- time control
- Support WOL & PXE function

Specifications

Main Board

- Onboard Intel® Atom™ Dual Core D525 1.8GHz processor, 1M Cache
- Chipset: Intel® ICH8M chipsets

Main Memory

- 1 x DDR2 SO-DIMM socket, support 2G DDR2 667 and 800 MHz memory max., unbuffered and non-ECC

Storage

- CF Card socket: External accessible type, screwed with CF card cover
- 1 x 2.5" SATA HDD drive bay for optional SSD

Expansion

- 1 x Mini-PCIe socket onboard
(Either optional Wi-Fi or Mobile wireless module)

I/O Interface-Front

- 1 x VGA Output
DB15x1, support analog monitor with pixel resolution up to 2048 x 1536@75 Hz
- 2 x RS232 COM Port
DB9 x 2, support 115.2 Kbps baud rate
- 2 x USB Port
2 x USB 2.0 ports, 500mA per port, covered with plastic cover to against the dust
- 1 x Mic-in & 1x Speaker-out
 - Audio controller: High Definition Audio Controller, Realtek: ALC888
 - 1 x Speaker-out, Dia. 3.5mm phone jack, covered with plastic cover
 - 1 x Mic-in, Dia. 3.5mm phone jack, covered with plastic cover
- 1 x 10/100 M12 LAN Port
Support Wake on LAN and boot from LAN function

Wireless Communication

- 1 x External accessible SIM card socket
- 1 x Mic-in for wireless communication use
- 1 x Speaker-out for wireless communication use
- 2 x Antenna holes (Either optional Wi-Fi or mobile wireless module)

LEDs

- 1 x LED for power status
- 1 x LED for HDD status
- 1 x LED for 10/100 LAN Link
- 1 x LED for 10/100 LAN Active

DC Input:

- 24V as the nominal (Range: 16.8V ~ 30V)
- Ignition signal input (24V, nominal; 0~10.5V = off, rest = on)
- 500V Isolated protection on DC Input
- 1 x External fuse

Validated Embedded OS

- Window Embedded Standard 2009

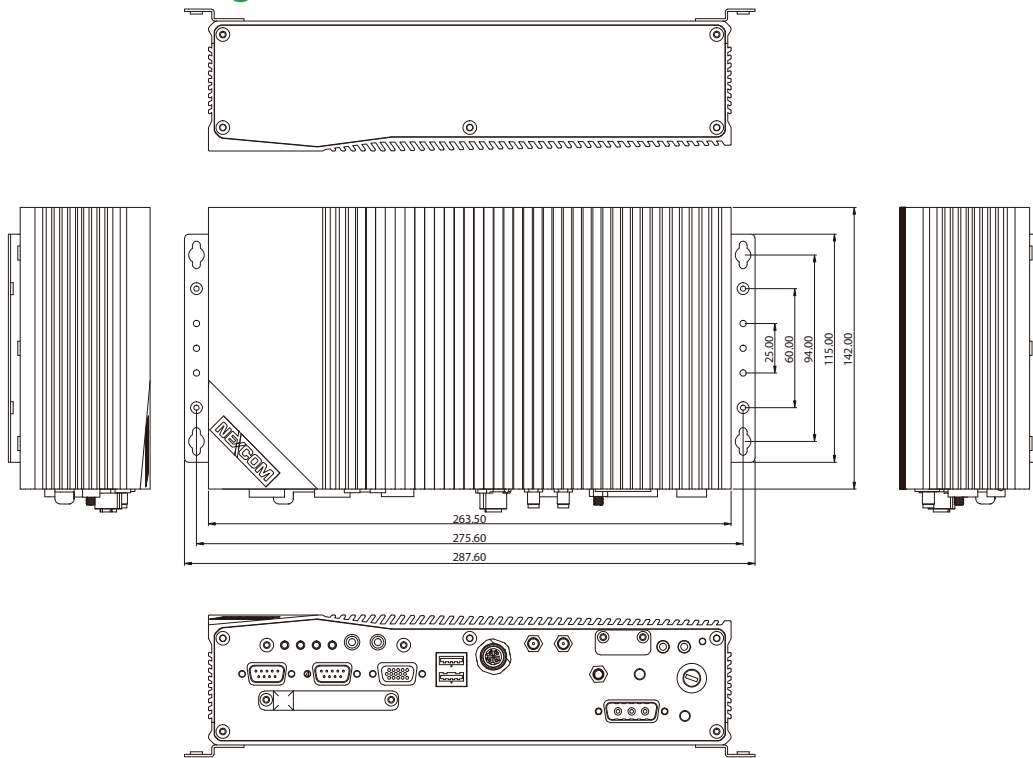
System Dimension

- 264mm (W) x 142mm (D) x 65mm (H)

Environment

- -5°C ~ 55°C

Dimension Drawing



Ordering Information

- ♦ **nROK 500 (P/N: 10A00050000X0)**
Intel® Atom™ D525 1.8GHz Fanless Railway System