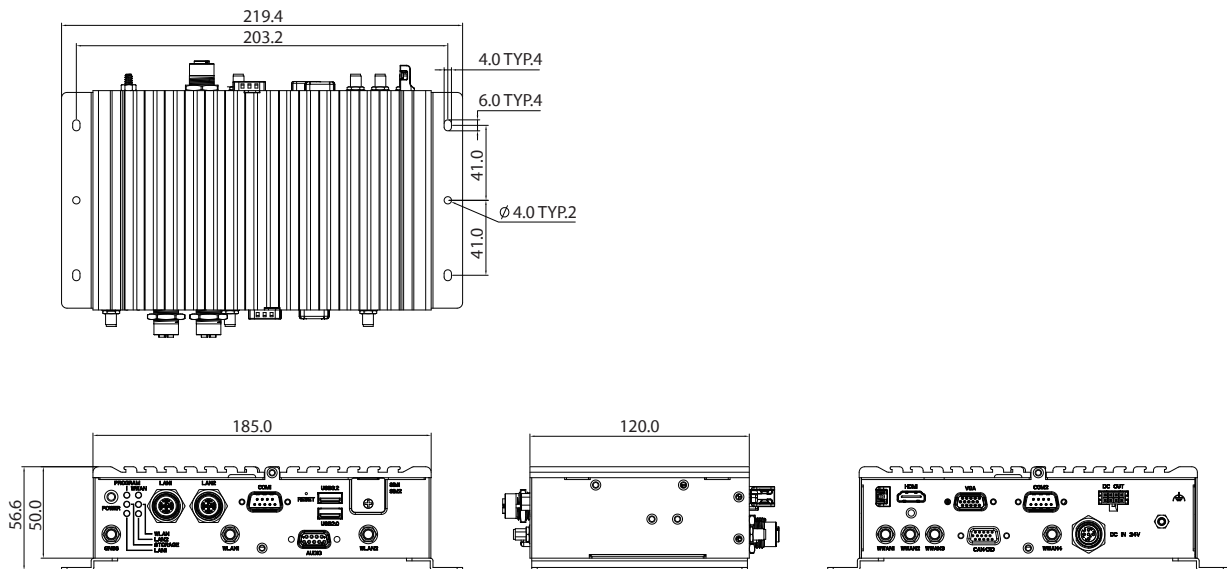


Dimension Drawing



- 2 x RP-SMA connector holes for WLAN
- 1 x SMA connector for GNSS

I/O Interface-Rear

- 1 x HDMI
- 1 x VGA
- 1 x DB9 (COM2) for full RS232/422/485
- 1 x DB15 (CAN/DIO)
 - 1 x Isolated CANBus 2.0B
 - 5 x DI and 4 x DO
- 1 x M12 5-pin A-coded DC input with ignition 24 VDC, non-isolation
- 1 x Connector (4 x 2) for 12VDC/2A output, reset, power button, RS232 (Tx/Rx)
- 4 x SMA connector holes for WWAN
- 1 x Ground connector

Power Management & Software Support

- Cranking voltage: 6V~9V (< 30 seconds)
- Reverse protection, OCP & UVP
- Selectable boot-up & shut-down voltage for low power protection by software
- Setting 8-level power on/off delay time by software
- 10~255 seconds WDT support, setup by software
- SDK (Windows/Linux) including utility and sample code

Operating System

- Windows 11/Windows 10/Linux

Dimensions

- 185mm (W) x 120mm (D) x 50mm (H)

Weight

- 1.25kg

Environment

- Operating temperatures
 - EN 50155, class OT4 (-40°C~70°C), 85°C for 10 minutes (w/ 6W TDP CPU, industrial SSD) with air flow
- Storage temperatures: -40°C to 85°C

- Relative humidity: 90% (non-condensing)
- Vibration (random)
 - 2g@5~500 Hz (in operation, SSD)
- Vibration (SSD)
 - Operating: MIL-STD-810H, Method 514.8C, Procedure 1, Category 4, common carrier US highway truck vibration exposure
 - Storage: MIL-STD-810H, Method 514.8E, Procedure 1, Category 24, minimum integrity test
- Shock (SSD)
 - Operating: MIL-STD-810H, Method 516.8, Procedure I, functional shock=40g
 - Non-operating: MIL-STD-810H, Method 516.8, Procedure V, crash hazard shock test=75g

Certifications

- CE
- FCC Class A
- EN 50155: 2017
 - Ambient temperature EN 50155, Class OT4 (-40°C~70°C), 85°C for 10 minutes
 - Interruptions of voltage supply class S1
 - Supply change over class C1
 - EMC EN 50121-1: 2017, EN 50121-3-2: 2016+A1: 2019
 - Environment EN 60068-2-1, EN 60068-2-2, EN 60068-2-30
 - Shock and vibration IEC 61373 Class B
 - Protective coating class PC1 (PC2, by request)
- EN 45545-2:2020

Ordering Information

• nROK 1030-A (P/N: 10A00103000X0)

Intel Atom® x6211E dual-core processor 1.3GHz with 4GB DDR4, U-blox NEO-M9N GNSS module, 1 x CAN 2.0B, 1 x VGA output, 1 x HDMI output, 1 x internal SSD tray, 2 x LAN M12 X-coded, 1 x mini-PCIe slot, 2 x M.2 slots, 2 x external micro-SIM, 1 x USB 3.2 Gen 2, 1 x USB 2.0, 2 x full RS232/422/485, 5 x DI & 4 x DO