

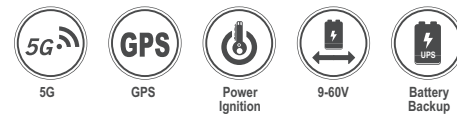
VBOX-3131

Taiwan Patent No. M447854

Intel Celeron N3060 Braswell CPU In-Vehicle Computer with 9~60V DC Input In-Vehicle Computer

Features

- Intel Celeron Processor N3060, Up to 2.48 GHz
- Wireless support 5G / LTE / GPS, Wi-Fi + Bluetooth (by optional M.2 modules)
- 9V - 60V DC Power Input
- Smarter Vehicle Power Ignition for Variety Vehicle
- Ultra-compact Design 150 x 135 x 55.3 mm
- Battery Backup (optional)



Introduction

VBOX-3131 is an ultra-compact size fanless In-Vehicle Computer with 5G connectivity. It utilizes Intel® Celeron® N3060 Dual-Core CPU up to 2.48GHz. VBOX-3131 features an ultra-compact design measuring 150 x 120 x 53mm, which can easily fit into restricted spaces. As robust connectivity, the system can select 5G, LTE, GPS, and Wi-Fi / Bluetooth by M.2 modules. It is a building-in dual independent DVI-D, audio line out, and microphone In, the perfect solution for fleet management, in-vehicle digital signage, and mobile DVR. Furthermore, it features Smarter Vehicle Power Ignition and wireless remote control in variety of vehicles. VBOX-3131 can effectively support cars in extreme weather and operating conditions, such as snowplows, Trucks, Buses, taxis, and Forklifts. With Intel N3060, VBOX-3131 has wireless connectivity such as 5G, LTE, Wi-Fi, Bluetooth, and an ultra-compact enclosure with dual DVI-D and Audio. Sintrones' VBOX-3131 is a compact and versatile in-vehicle computer that can fuel various transportation systems.

Specifications

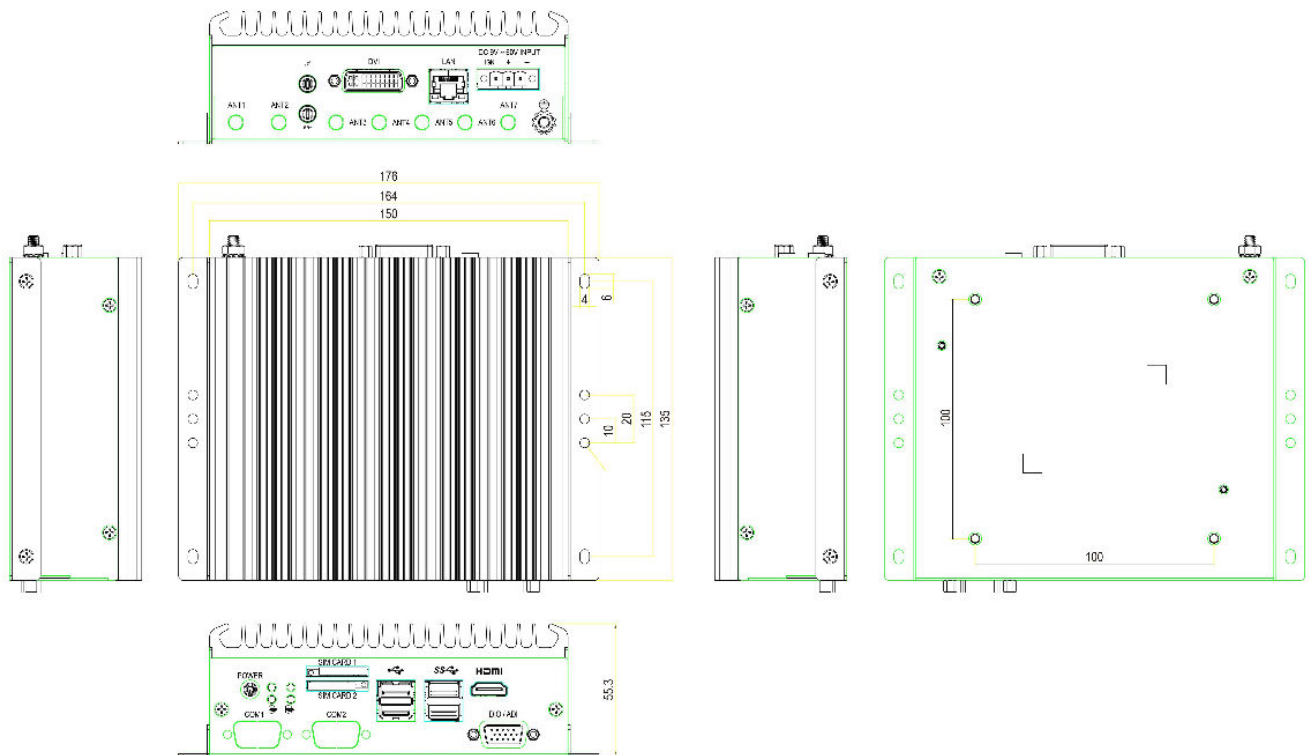
| System | |
|------------------|--|
| CPU | Intel N3060 Dual Core CPU up to 2.48GHz |
| Memory | 1 x DDR3L-1600 SO-DIMM up to 8GB |
| Chipset | N/A |
| Graphics | Intel HD Graphics |
| LAN Chipset | 1 x Intel i210AT Gigabit Ethernet |
| Watchdog | 1 ~ 255 Level Reset |
| TPM | 2.0 |
| I/O | |
| USB Port | 2 x USB 3.2 Gen 1x1 2 x USB 2.0 |
| LAN | 1 x RJ45 Ports for GbE |
| Video Port | 1 x HDMI, 1 x DVI-D * Use only with Single Link DVI Cables |
| DIO Port | 2 x Analog Input (9~60V), 4 x DI (5V~60V), 4 x DO (5V/100mA/port) |
| Audio | 1 x Mic-in, 1 x Line-out |
| Expansion Bus | 1 x M.2 3042/3052 B Key for LTE/5G module |
| | 1 x M.2 2230 A-E Key for Wi-Fi + Bluetooth |
| | 1 x miniPCIe slot support (USB+PCIe bus or mSATA) |
| Antenna | 7 x Pre-cut SMA holes for Antenna Connectors |
| SIM Card Socket | 2 x SIM Card Sockets Supported Onboard |
| Serial Port | 2 x RS 232/422/485 (Optional, Model name VBOX-3131-2S) |
| Storage | |
| Type | 1 x M.2 2280 M key support SATA Bus |
| Software | |
| Operating System | Windows*, Ubuntu 16.04 *The supported version depends on the Microsoft® announcement. |

| Environmental | |
|----------------------|--|
| Operating Temp. | -30 ~ 60°C, ambient w/ 0.6m/s airflow |
| Storage Temp. | -30 ~ 85°C |
| Relative Humidity | 10% RH - 90% RH (non-condensing) |
| Vibration (with SSD) | IEC60068-2-64, random, 2.5G@5~500Hz, 1hr/axis MIL-STD-810G, Method 514.6, Procedure I, Cat.4 |
| Shock | Operating: MIL-STD-810G, Method 516.6, Procedure I, Trucks and semi-trailers=15G (11ms) with M.2 SSD |
| Certifications | CE, FCC Class A, E13 |
| Power Requirement | |
| Power Input | 9V - 60V DC Power Input |
| Power Mgmt. | Vehicle Power Ignition for Variety Vehicle |
| Power Off Control | Power off Delay Time Setting by BIOS and Software |
| Battery (UPS) | Internal Battery Kit for 10 Mins Operating (Optional) *UPS backup time varies depending on actual overall system power consumption. Patent No. : M447854 - Build-in Battery |
| Mechanical | |
| Construction | Aluminum Alloy |
| Mounting | Wall-mount and VESA mount |
| Weight | 1100g |
| Dimensions | 150(L) x 135(W) x 55.3(H) mm |

All specifications are subject to change without notice.

Dimensions

Unit : mm



Ordering Information

| | |
|------------------------|--|
| Part Number | VBOX-3131, VBOX-3131-2S (w/optional 2 x RS232/422/485) |
| Description | Intel Celeron N3060 Braswell CPU In-Vehicle Computer with 9-60V DC Input In-Vehicle Computer |
| State of Origin | Made in Taiwan |

Optional Accessories

| | |
|---------------------------|---|
| DRAM | SO-DIMM max.DDR3L 1600, 2GB-8GB, -40-85°C |
| SATA SSD | M.2 2280 SATA SSD M key TLC 64GB~1TB. |
| Wifi/ BT | M.2 2230 A-E Key Card |
| 5G/ LTE/ GPS | M.2 3042/3052 B Key Card |
| Battery backup kit | BAT-3000-P kit |
| Power adapter | Power Adapter 12V/5A 60W Jack |

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Assured Systems

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