

VBOX-3131

Taiwan Patent No. M447854

Intel Celeron N3060 Braswell CPU In-Vehicle Computer with 9~48V DC Input In-Vehicle Computer

Features

- Intel N3060 Core CPU up to 2.48GHz
- Wireless support 5G/LTE/GPS, Wifi+Bluetooth(by Optional M.2 modules)
- Dual independent DVI-D, Audio Line out and Mic In
- 9V - 48V DC Power Input
- Smarter Vehicle Power Ignition for Variety Vehicle
- Ultra compact Design 150 x 120 x 53 mm
- Battery backup (Option)

Preliminary



Introduction

VBOX-3131 is an ultra-compact size fanless In-Vehicle Computer with 5G connectivity. It utilizes Intel ATOM Braswell N3060 Dual Core CPU up to 2.48GHz. VBOX-3131 feature an ultra-compact design measuring 150 x 120 x 53mm, which can easily fit into restricted spaces. The system is able to select 5G, LTE, GPS and Wifi/BT by M.2 modules as powerful connectivity. In addition, it is building-in dual independent DVI-D, audio line out and microphone In, which is perfect solution for fleet management, in-vehicle digital signage and mobile DVR. Furthermore, it features Smarter Vehicle Power Ignition and wireless remoted control in variety of vehicles. VBOX-3131 can effectively support vehicles in extreme weather and operating conditions, such as Snowplow, Trucks, Buses, Taxi and Forklifts. Combining Intel Braswell N3060 CPU, 5G, LTE, Wifi, Bluetooth wireless connectivity and ultra-compact enclosure with dual DVI-D and Audio, Sintron's VBOX-3131 is a compact and yet versatile In vehicle computer that can fuel various transportation system.

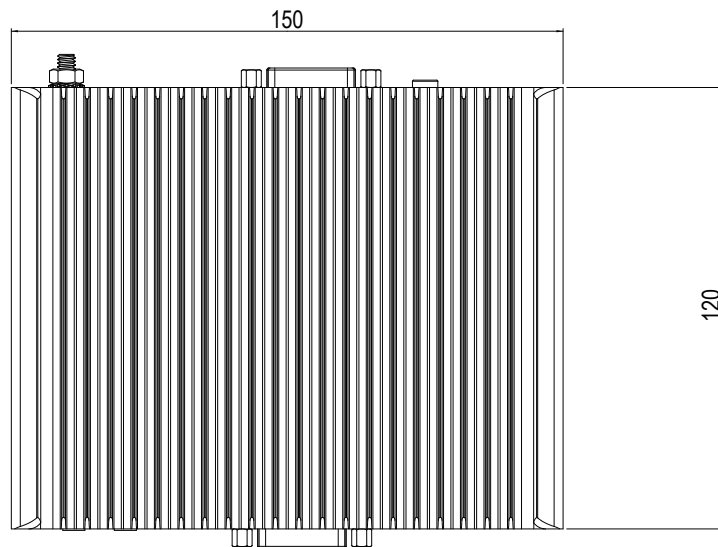
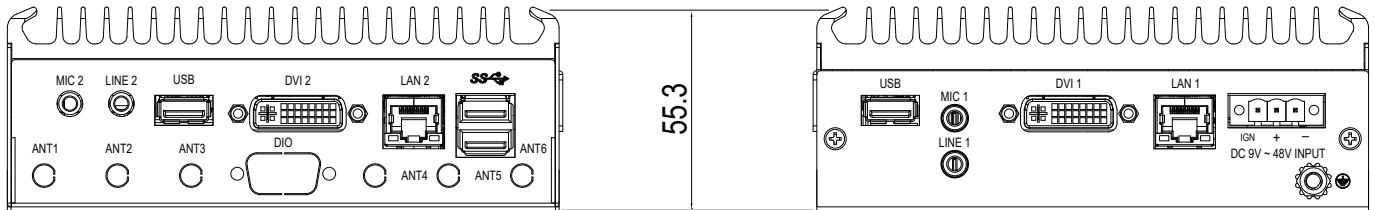
Specifications

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	2 x Intel i210-AT Gigabit Ethernet
Watchdog	1 ~ 255 Level Reset
I/O	
USB Port	2 x USB 3.2 Gen 1x1 2 x USB 2.0
LAN	2 x RJ45 Ports for GbE
Video Port	2 x DVI-D* Use only with Single Link DVI Cables.
DIO Port	4 x DI (5V~48V), 4 x DO (5V/100mA/port)
Audio	2 x Mic-in, 2 x Line-out
Expansion Bus	1 x M.2 B Key 3042/52 for LTE/5G (USB 3.0) module 1 x M.2 A-E Key 2230 slot for Wifi+Bluetooth
Antenna	6 x Pre-cut SMA holes for Antenna Connectors
SIM Card Socket	2 x SIM Card Sockets Supported Onboard
Storage	
Type	1 x M.2 M key slot supports 2280 SATA Bus
Software	
Operating System	Win 10, Ubuntu 16.04

Environmental	
Operating Temp.	-30 ~ 60°C, ambient w/ 0.6m/s airflow
Storage Temp.	-30 ~ 85°C
Relative Humidity	5% 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 SSD
Certifications	CE, FCC Class A, E13
Power Requirement	
Power Input	9V - 48V DC Power Input
Power Mgmt.	Vehicle Power Ignition for Variety Vehicle
Power Off Control	Power off Delay Time Setting by BIOS and Software Internal Battery Kit for 10 Mins Operating (Optional)
Battery (UPS)	*UPS backup time varies depending on actual overall system power consumption. Patent No. : M447854 - Build-in Battery
Mechanical	
Construction	Aluminum Alloy
Mounting	Wall-mount, VESA-mount, Din Rail Mounting Kit
Weight	700 g
Dimensions	150(L) x 120(W) x 53(H) mm

Dimensions

Unit : mm



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Ordering Information

Part Number	VBOX-3131
Description	Intel Celeron N3060 Braswell CPU In-Vehicle Computer with 9~48V DC Input In-Vehicle Computer
State of Origin	Made in Taiwan

Optional Accessories

DRAM	SO-DIMM max.DDR3L 1600, 2GB~8GB,0~70°C/-40~85°C
SATA SSD	M.2 SATA SSD M key 2280 slot MLC/TLC 64GB~1TB
Wifi/ BT	M.2 A-E Key 2230 802.11ac/a/b/g/n 2T2R Bluetooth 5.0
5G/ LTE/ GPS	M.2 card
Battery backup kit	BAT-3000 kit, 1150mAH 3S1P Battery kit (-30~60°C)
Power adapter	Power Adapter 12V/5A 60W Jack