VBOX-3131

Taiwan Patent No. M447854

Intel® Celeron® Processor 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)













Battery Backup

Introduction

VBOX-3131 is an ultra-compact fan-less in-vehicle computer with 5G module expansion capability. Based on Intel® Celeron® N3060 processor up to 2.48 GHz. VBOX-3131 features an ultra-compact design that can easily fit into restricted spaces. As robust connectivity, the VBOX-3131 can be installed with 5G, LTE, GPS, and Wi-Fi / Bluetooth by M.2 modules. It provides one HDMI and one DVI-D output for dual display connections; the DVI-D interface also provides stereo audio output and microphone input for the SINTRONES VDM-700 touch panel connection. This solution is perfect for fleet management, in-vehicle digital signage, and mobile DVR. Furthermore, it features intelligent vehicle power ignition and remote control in various vehicles. VBOX-3131 can effectively support cars in extreme weather and harsh environments, such as snowplows, trucks, E-buses, taxis, and forklifts. VBOX-3131 is an economy computing solution with a compact design for transportation applications.

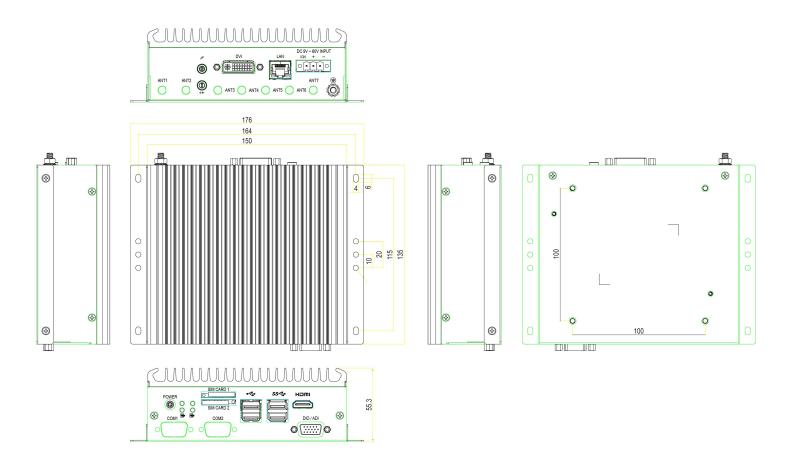
Specifications

System		
	Little Nagger D. et a. e. a. p. p. e. a.	
CPU	Intel N3060 Dual Core CPU up to 2.48GHz	
Memory	1 x DDR3L-1600 SO-DIMM up to 8GB	
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 1 (Type A)	
	2 x USB 2.0 (Type A)	
LAN	1 x RJ-45 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 Key B for LTE / 5G module	
	1 x M.2 2230 Key A-E for Wi-Fi + Bluetooth	
	1 x miniPCle slot support (USB+PCle Bus or mSATA)	
Antenna	7 x Pre-cut Holes for External SMA Antenna	
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		
Туре	1 x M.2 2280 Key M Supports SATA Bus *Additional heat Sink is required. Please contact with Sales Window for suitable model.	
Software		
Operating System	Windows 10 IoT 64-bit, Ubuntu 16.04 64-bit	

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	IEC60068-2-64, random, 2.5G@5~500Hz, 1hr/axis	
(with SSD)	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 speci ications 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 with 9~60V DC Input In-Vehicle Computer	
State of Origin	Made in Taiwan	

Optional Accessories

DRAM	DDR3L SO-DIMM 1600, 2GB~8GB, -40~85°C
SATA SSD	M.2 2280 SATA SSD Key M TLC 64GB~1TB.
Wi-Fi / BT	M.2 2230 Key A-E Card
5G / LTE / GPS	M.2 3042/3052 Key B Card
Battery Backup	BAT-3000-P Kit
Power Adapter	Power Adapter 12V/5A 60W
CAN Bus	mPCIe CAN Bus Module

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