VBOX-3130

Taiwan Patent No. M447854

Intel® Pentium® / Celeron® Processor / 9~36V DC Input In-Vehicle Computer

Features

- Intel® Pentium® Processor N3710, Up to 2.56 GHzGHz
- Wireless Support LTE, WLAN, GPS, Bluetooth (optional)
- 9V - 36V DC Power Input
- Smarter Vehicle Power Ignition for Variety Vehicle
- 3 x RS-232 (COM1 & COM2 with RS-232/422/485)
- 2 x DI / 2 x DO (12V / 100mA)

GPS Wireless Wide Range Delay Time

Introduction

The VBOX-3130 is an in-vehicle computer which is powered by Intel® Pentium® Processor with 9~36V DC power input. It provides 3 x RS-232 (COM1 & COM2 with RS-232/422/485) serial I/O port. VBOX-3130 is designed for fleet management, mobile DVR, driver behavior record and in-vehicle digital signage. It features Smarter Vehicle Power Ignition for a variety of vehicles. VBOX-3130 can effectively support vehicles in bad weather and extreme working conditions, such as snowplow, train, and stacker operations. Moreover, VBOX 3130 features a power-off control with a delay time set via software (default is 5 minutes).

Specifications

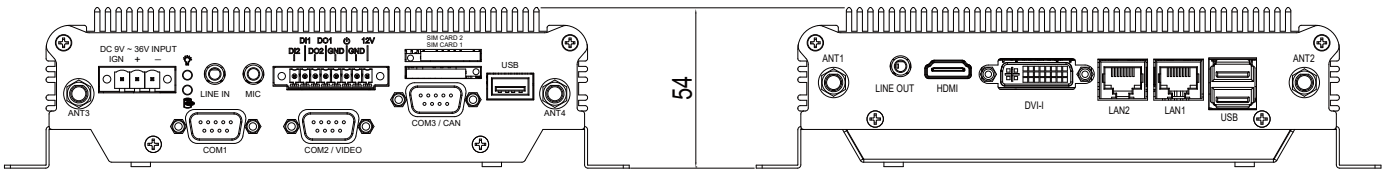
System	
CPU	Intel® Pentium® Processor N3710, up to 2.56 GHz
	Intel® Celeron® Processor N3060, up to 2.48 GHz
	Intel® Celeron® Processor N3160, up to 2.24 GHz
Memory	1 x DDR3L-1600 SO-DIMM up to 8GB
Graphics	Intel HD Graphics
SATA	2 x SATA 6Gb/s for HDD/SSD
LAN Chipset	2 x Intel I210-AT Gigabit Ethernet
Watchdog	1 ~ 255 Level Reset
I/O	
Serial Port	3 x RS-232 (COM1 & COM2 with RS-232/422/485 (Optional Max 4 x RS-232/422/485))
USB	2 x USB 3.0, 1 x USB 2.0
LAN	2 x RJ-45 for GbE
Video	1 x HDMI and 1 x DVI-I*
GPIO	2 In and 2 Out (12V / 100mA)
Audio	Mic-in/Line-out
Expansion Bus	3 x Mini-card Slots
Antenna	4 x SMA-type External Antenna Connectors for LTE / WLAN / UMTS / GSM / GPRS / GPS / Bluetooth
SIM Card	2 x SIM Card Sockets Supported Onboard with eject
	* Use only with Single Link DVI Cables.
Software	
Operating System	Microsoft® Windows Embedded Standard (WES) 7 Windows 10 IoT Ubuntu 16.04

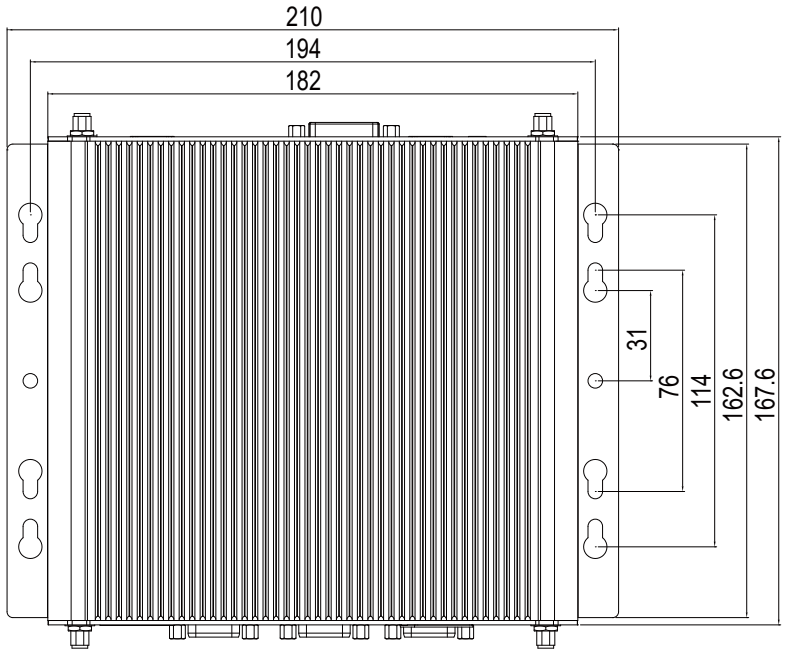
Environmental	
Operating Temp.	-40 ~ 70°C (SSD), ambient w/ 0.6m/s airflow
Storage Temp.	-40 ~ 80°C
Relative Humidity	10% RH – 90% RH (non-condensing)
Vibration (with SSD)	IEC 60068-2-64, Random, 2.5G@5~500Hz, 1hr/axis
	MIL-STD-810G, Method 514.6, Procedure I, Cat.4, Operating
Shock	Operating: MIL-STD-810G, Method 516.6, Procedure I, Trucks and semi-trailers=15G (11ms) with SSD
Certifications	CE, FCC Class A, E-Mark Compliance
Storage	
Type	1 x 2.5" Drive Bay for SATA Storage
	1 x SATA DOM
Power Requirement	
Power Input	9V - 36V 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, VESA-mount, Din Rail Mounting Kit
Weight	1,406 g
Dimensions	182(L) x 167.6(W) x 54(H) mm

All specifications are subject to change without notice.

Dimensions

Unit : mm





Ordering Information

Part Number	VBOX-3130-NX (X= 0= w/N3060 , X= 1= w/N3160 , X= 2= w/N3710)
Description	Intel® Pentium® N3710 / Celeron® N3160 / Celeron® N3060 Processor / 9~36V DC Input / In-Vehicle Computer
State of Origin	Made in Taiwan

Optional Accessories

DRAM	DDR3L-1600 SO-DIMM 2 GB~8 GB, 0~70ºC/-40~85ºC
SATA SSD	2.5 inch MLC/TLC 64 GB~1 TB, 0~70ºC/-40~85ºC
SATA DOM	8 GB~128 GB MLC 0~70ºC/-40~85ºC
Wireless	Wi-Fi, mPCIe, Half Size, IEEE 802.11 a/b/g/n/ac
WWAN Modem	LTE mPCIe Card
GPS	GPS mPCIe Card
Battery Backup kit	BAT-3000 Kit, 1150mAH 3S1P Battery Kit (-30~60ºC)
Power Adapter	Power Adapter 12V/5A 60W