

# VBOX-3130

Taiwan Patent No. M447854

Intel Braswell N-Series Atom CPU In-Vehicle Computer with 9~36V DC Input In-Vehicle Computer

## Features

- Intel N3710 Quad Core CPU up to 2.56GHz
- 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 232/422/485)
- 2 x DI / 2 x DO (12V / 100mA)



GPS



Wireless



Wide Range



Delay Time

## Introduction

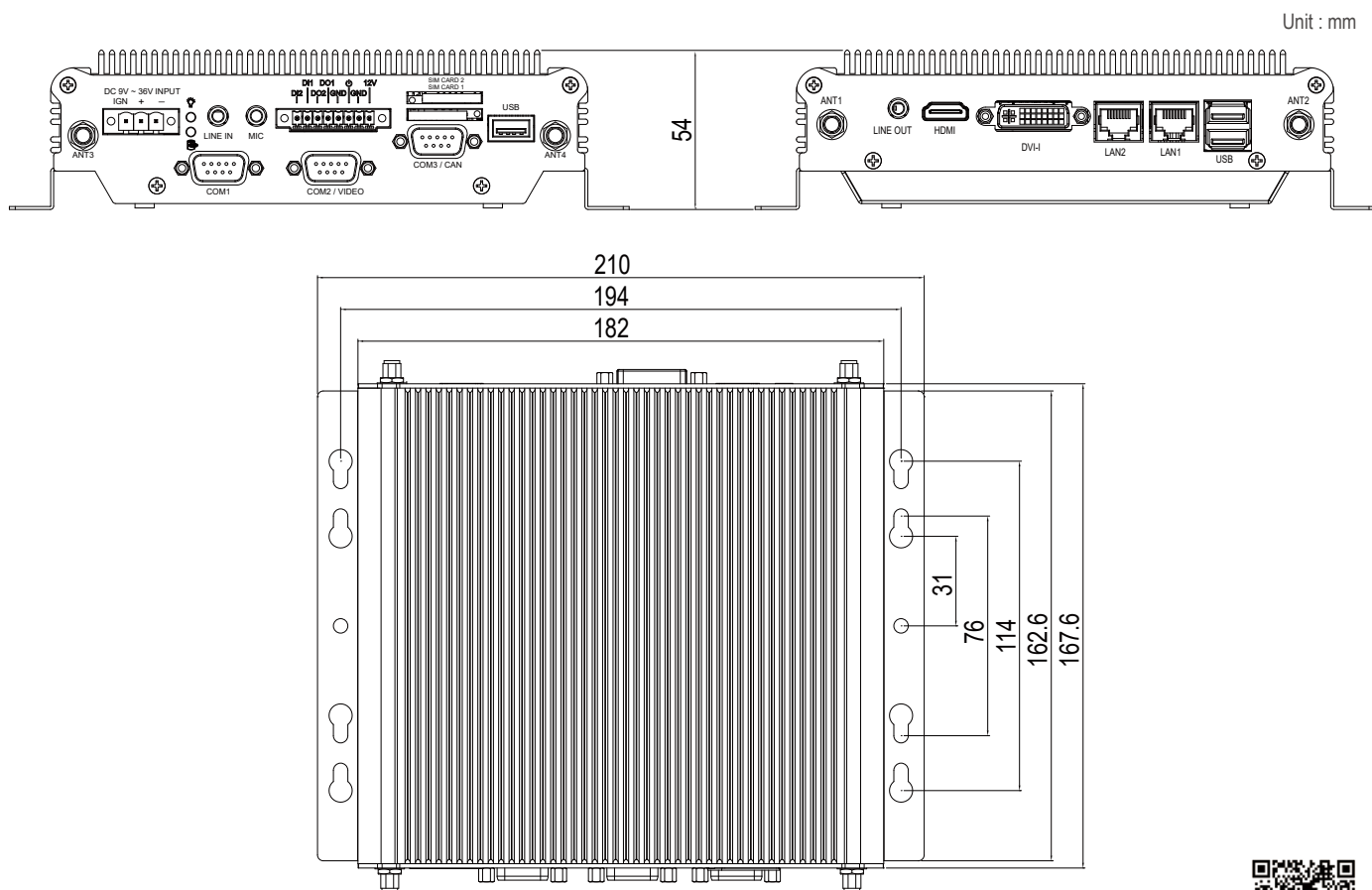
The VBOX 3130 In-Vehicle Computer is powered by Intel Braswell N-Series Atom CPU In-Vehicle Computer with 9~36V DC Input. It provides 3 x RS-232 (COM1 & COM2 with RS232/422/485) serial I/O port. VBOX-3130 In-Vehicle Computer is designed for fleet management, mobile DVR, driver behavior record and in-vehicle digital signage. It features Smarter Vehicle Power Ignition for a variety of vehicles. VBOX-3130 In-Vehicle Computer can effectively support vehicles in bad weather and extreme working conditions, such as snowplow, train, and stacker operations. Moreover, VBOX 3130 In-Vehicle Computer features a power-off control with a delay time set via software (default is 5 minutes).

## Specifications

System	
CPU	Intel Pentium N3710 Quad Core CPU up to 2.56GHz Intel Celeron N3160 Quad Core CPU up to 2.24GHz Intel Celeron 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
ATA	2 x Serial ATA 2.0 Ports with 6Gb/s HDD transfer Rate
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 Port	2 x USB 3.0, 1 x USB 2.0
LAN	2 x RJ45 Ports for GbE
Video Port	1 x HDMI and 1 x DVI-I*
GPIO Port	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 Socket	2 x SIM Card Sockets Supported Onboard with eject * Use only with Single Link DVI Cables.
Software	
Operating System	WES 7, Win 10, 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)	IEC60068-2-64, 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, EMark Compliance
Storage	
Type	1 x 2.5" Drive Bay for SATA Type Hard Disk Drive/SSD 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) <b>Patent No. : M447854 - Build-in Battery</b>
Mechanical	
Construction	Aluminum Alloy
Mounting	Wall-mount, VESA-mount, Din Rail Mounting Kit
Weight	1406 g
Dimensions	182(L) x 167.6(W) x 54(H) mm

## Dimensions



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## Ordering Information

Part Number	VBOX-3130-NX (X= 0= w/N3060 , X= 1= w/N3160 , X= 2= w/N3710)
Description	Intel Braswell N-Series Atom CPU In-Vehicle Computer with 9~36V 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	2.5inch MLC/TLC 64GB~1TB 0~70°C/-40~85°C
SATA DOM	MLC 8GB~128GB, 0~70°C/-40~85°C
Wifi	Wifi miniPCIe half size card 802.3a/b/g/n/ac
Modem	LTE miniPCIe card
GPS	GPS miniPCIe card
Battery backup kit	BAT-3000 kit, 1150mAH 3S1P Battery kit (-30~60°C)
Power adapter	Power Adapter 12V/5A 60W Jack