

VBOX-3620-M12X

Intel Gen6 Core i7-6600U CPU with Isolated Input 3 x GbE and 1 x iAMT
In-Vehicle Computer



Delay Time



Power Ignition



Wide Range



Wireless



Battery Backup

Taiwan Patent No. M447854
Taiwan Patent No. M448011

System

CPU	Intel Gen6 Core i7-6600U 2.6GHz up to 3.4GHz Intel Gen6 Core i5-6300U 2.4GHz up to 3GHz Intel Gen6 Core i3-6100U 2.3GHz Intel Gen 6 Dual Core 3955U 2.0GHz
Memory	2 x SO-DIMM DDR4 up to 32GB
LAN Chipset	2 x Intel I210AT and 1 x Intel i219LM
Audio	Realtek ALC662 HD Codec Onboard
Watchdog	Watchdog Timer Support, Offer 1 – 255 Step

I/O

Serial Port	2 x RS-232/422/485, 2 x RS-232 w/ isolation (Auto Direction Control)
USB Port	2 x USB 3.0 Ports, 2 x USB 2.0 Ports
LAN	3 x 10/100/1000 Mb/s w/ M12 x-code (1 port with iAMT)
Video Port	2 x DP Port, 1 x VGA (Support Triple Independent Display)
DIO Port	8 x GPI and 4 x GPO w/ isolation
Audio	1 x Line-out and 1 x Mic-in (Line-in Optional)
SIM Card Socket	2 x SIM Card Sockets, supported onboard with eject 6 x SIM Card Sockets (Optional)
Expansion Bus	3 x Mini-card slots 1 x M.2 slot

Graphics

Graphics	Intel® HD Graphics 520 DirectX Video Acceleration (DXVA) for Accelerating Video Processing - Full AVC/VC1/MPEG2 HW Decode Supports DirectX 11/10.1/10/9 and OpenGL 4.0
Resolution	Up to 4096 x 2304@60 Hz

Storage

Type	2 x 2.5" Drive Bay for SATA Type HDD/SSD, RAID 0/1/5 1 x SATA DOM
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Features

- Intel Core i7-6600U / i5-6300U / i3-6100U
- Wireless support LTE, 3.5G w/ SIM Card, WLAN
- GPS Dead Reckoning, GSM/GPRS, BT
- 3 x GbE including 1 with iAMT
- Isolated wide Input Range 9-36VDC
- Smarter Vehicle Power Ignition for Variety Vehicle
- Dual Hot Swappable SATA bays & 1 x SATA DOM, support RAID 0/1/5
- EN50155 Tx

Power Requirement

Power Input	9V - 36V DC Power Input with Isolation
Power Protection	Automatics Recovery Short Circuit Protection
Power Management	Vehicle Power Ignition for Variety Vehicle
Power Off Control	Power off Delay Time Setting by Software and BIOS
Battery (UPS)	Internal Battery Kit for 10 Mins Operating (Optional)

Patent No. : M447854 - Build-in Battery

Environmental

Operating Temp.	-40°C ~ 70°C
Storage Temp.	-40°C ~ 80°C
Relative Humidity	0% RH – 95% RH
Vibration(random)	2.5g@5~500 Hz with SSD
Vibration Operating	MIL-STD-810G, Method 514.5, Category 20, Ground Vehicle-Highway
Truck Storage	MIL-STD-810G, Method 514.5, Category 24, Integrity Test
Shock	Operating: MIL-STD-810G, Method 516.5, Procedure I, Trucks and semi-trailers=15G (11ms) with SSD
Crash Hazard	MIL-STD-810G, Method 514.6 C-1, Procedure V, Ground equipment=100g
Certifications	CE, FCC Class A, EN50155, EN50121

Mechanical

Construction	Aluminum Alloy
Mounting	Supports Both of Wall-mount/VESA-mount
Weight	1900g
Dimensions	250 x 150 x 55 mm

Ordering Information

Part Number	VBOX-3620-M12X-000
Description	Intel Gen6 Core i7-6600U CPU with Isolated Input 3x GbE with 1 x iAMT In-Vehicle Computer