

In-Vehicle-Computer

Unbeatable Wide Temperature Fanless Computers
for In-Vehicle & Edge Computing!

AIV-TGH7E



45W TDP
20% CPU



- Intel® 11th Generation Core™ i7/i5/i3 Processor
- Support 1 DDR4 3200 SODIMM, up to 32GB
- Support 2.5GbE, USB 3.2 Gen2 x 4
- Triple Display : HDMI 2.0b x 1 , DP++ 1.2a x 2
- Two front easy access 2.5" SATA III storage bay
- Wide Temperature design : -40~70C
- Wide Voltage Power Input : 9-24Vdc
- Fanless design Input



.CAN Bus



Wide temp



Delay Time
on/off



ANTI
VIBRATION



Server-Grade
Performance



Power
Management



Wireless

AIV-TGH7E

11th Gen Intel® Core™ i7/i5/i3 Processor(Tiger Lake)
Fanless In-Vehicle Computer



Features

- Intel® 11th Generation Core™ i7/i5/i3 Processor
- Support 1 DDR4 3200 SODIMM, up to 32GB
- Support 2.5GbE, USB 3.2 Gen2
- CAN Bus provide
- Two front easy access 2.5" SATA III storage bay
- 9-32Vdc w/in-vehicle power ignition control
- Fanless design
- Wide Operating Temperature -40~70°C



CE FCC

Others

TPM	Optional By Request
Watchdog Timer	255 Levels
Smart Management	Wake on LAN, PXE supported
HW Monitor	Monitoring temperature, voltages. Auto throttling control when CPU overheats.

Software

OS Support	Windows 10, Linux
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Power Requirement

Power Input	9V to 32V, DC-in
Power Interface	3-pin Terminal Block : V+, IGN, V- With Power Ignition Control

Mechanical & Environment

Dimension	220mm(W) x 175mm(D) x 73mm(H) (8.66" x 6.89" x 2.87")
Weight	TBD
Mounting	Wallmount
Operating Temperature	-40°C to 70°C (-40°F to 158°F)
Storage Temp	-40°C to 80°C (-40°F to 176°F)
Humidity	5% to 90% Humidity, non-condensing
Shock	IEC 60068-2-27 SSD : 50G @ wallmount, Half-sine, 11ms
Vibration	IEC 60068-2-64 SSD : 5Grms, 5Hz to 500Hz, 3 Axis
EMC	CE / FCC class A/ E-Mark

*Please adopt wide operation temperature RAM, SSD, HDD to get better and stable system performance.

Specification

System

CPU	Intel® 11th Generation Core™ i7/i5/i3 Processor (Tiger Lake-H) i7-11850HE (8C/16T, 2.60GHz, up to 4.70GHz) i5-11500HE (6C/12T, 2.60GHz, up to 4.50GHz) i3-11100HE (4C/8T, 2.40GHz, up to 4.40GHz)
Chipset	Intel® HM570E
Memory	1 DDR4-3200 Memory supports up to 32GB (ECC)

Video

Graphic Controller	Intel® Iris® X Graphics
Interface	1 HDMI , 2 DP

Storage

SATA	2 SATA III (6Gbps) support S/W RAID 0, 1
Storage Device	2 Front-access 2.5" SSD/HDD Tray

I/O

LAN	LAN 1 : RJ45 Type Intel® I225 2.5GigE LAN LAN 2 : RJ45 Type Intel® I219 GigE LAN
Serial	2 DB9 Type RS-232/RS422/485 2 DB9 Type RS-232
USB	4 Type A USB 3.2 Gen2
DIO	16 DIO, DB25 Type connector
Audio	1 Mic-in, 1 Line-in, 1 Line-out
CAN BUS	1 DB9 CANBus
LED	Power, HDD, Status
Button	1 Power Press Button
Antenna Hole	6 Antenna Holes

Expansion

Mini PCIe	1 x Half Size Mini PCIe slot
M.2	1 x M.2 B Key(3052)
SIM Slot	1 Nano SIM Slot (Internal)

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