

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

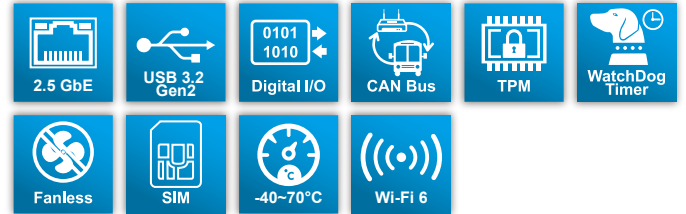
AIV-TGH7E

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

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|------------|-------------------|
| OS Support | Windows 10, Linux |
|------------|-------------------|

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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