AIV-TGH7B – Fanless In-Vehicle 11th Gen Tiger-Lake Computer

The AIV-TGH7B Series of fanless computers is perfect for in-vehicle and edge computing applications featuring 11th Gen Intel Core i7/i5/i3 Processor and Intel Iris Xe Graphics for high performance computing and real-time graphics. This Series supports an operating temp range of -40C ~70C and is ideal for applications such as passenger information computers, digital signage, power charging equipment, AGV and AMR. The range of I/O interfaces includes GigE LAN, 2.5GigE LAN, USB 3.2 and SATA III, as well as mini PCIe and M.2 slots for flexible expansion.

SPECIFICATIONS

CPU	Intel® Tiger Lake 11th Gen H Processor
Memory Type	DDR4 3200MHz SO-DIMM up to 32GB
Memory Slots	1
Chipset	Integrated in SoC
Integrated Graphics	Intel® Iris® Xe Graphics
Video	1 x HDMI, 2 x DP
LAN Ports	1 x Intel® i219-LM Gigabit PHY LAN, 1 x Intel® i225-LM Gigabit LAN
Watchdog Timer	255 Levels
TPM	Onboard TPM 2.0 (Optional, please contact sales for more information)
Drive Bays	2 x 2.5" SATA SSD/HDD Trays, supports RAID 0, 1 (Easily Accessible storage design)
Rear I/O	2 x RS232, 2 x RS232/RS422/485 Ports, 4 x USB 3.2, 16 x DIO, 1 x Mic-in, 1 x Line-in, 1 x Line-out, LEDs, 1 x Power Button, 6 x Antenna Holes
Extended Interface	1 x Half-Size Mini PCIe, 1 x M.2 B-Key (3052), 1 x M.2 M-Key (2280), 1 x Nano SIM Slot
Power Requirement	9~24V DC

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Dimensions	220mm(W) x 175mm(D) x 73mm(H) (8.66" x 6.89" x 2.87")
Operating Temperature	-40°C to 70°C (-40°F to 158°F)
Storage Temperature	-40 ~ 80 °C (-40 ~ 176 °F)
Shock	IEC 60068-2-27, 50 G, half sine, 11 ms duration, With SSD
Vibration	IEC 60068-2-64, 5 Grms, random, 5 ~ 500 Hz, 1 hr / Per Axis, With SSD
OS Software Supported	Windows 10 64-bit, Linux by request

ORDERING OPTIONS

1708583A: AIV-TGH7B1 with Intel i7-11850HE 1708583B: AIV-TGH7B2 with Intel i5-11500HE 1708583C: AIV-TGH7B3 with Intel i3-11100HE NOTE: Systems come with 2x Wallmount bracket, 1x 3-pin Terminal Block and 1x Screw package