GLOBAL AMERICAN

AAD-W480A

This is an Autonomous Driving Controller/Server System designed for AI and Edge Computing featuring 10th Generation Intel® Core Xeon/i9/i7 Processor (Comet Lake) options with Intel® W480E chipset supporting a maximum 80W TDP. AAD-W480A can support up to 64GB 3200MHz SODDR4 (Non-ECC) memory and has 2x GigaLAN ports, 6x USB 3.2 Gen2 ports, 1x PCIe x16 slot and 1x PCIe x4 slot for expansion. It can support one NVIDIA RTX 30 series graphics card with up to 320W maximum power. It also has CAN Bus support and 2x front-accessible 2.5" SATA III storage bays. AAD-W480A runs on 9-55V DC power with in-vehicle power ignition control and a maximum power input of 500W.

SPECIFICATIONS

CPU	10th Gen Intel® Xeon®/Core™ i9/i7/i5/i3 Processors (CML-S) with max 80W TDP
Chipset	Intel® W480E
Memory	2 x 260 PIN DDR4-3200 SODIMM supports up to 64GB
Integrated Graphics	Intel® UHD Graphics 630
Video	1 x VGA, 1 x DVI-D, 1 x HDMI 1.4b
LAN Ports	2 x Intel I210-IT Gigabit LAN
Watchdog Timer	255 Levels
TPM	2.0 (Optional)
Drive Bays	2 x 2.5" SATA SSD/HDD Trays, supports RAID 0, 1 (Easily Accessible storage design)
Extended Interface	2 x Full Size Mini PCIe Slots, 1 x M.2 B Key(3042), 1 x SIM Slot (Internal), 1 x PCIe[x16] Slot, 1 x PCIe[x4] Slot
Front I/O	2 x RJ45 i210IT (PoE), 6 x USB 3.0 Gen2x1, 2 x RS232/RS422/485, 1 x VGA, 1 x DVI-D, 1 x HDMI, Audio, LED, Power Button
Rear I/O	2 x RS232/RS422/485, DIO, 1 x DB9 CANBus, 7 x Antenna holes, Ignition Input w/Terminal Block, 9~55V DC Input (450~500W)
Power Requirement	9~55V DC in power input w/terminal block, 450~500W

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Dimensions	270(W) x 140(H) x 360(D) mm (10.63" x 5.51" x 14.17")
Operating Temperature	-30°C to 60°C (w/35W TDP CPU); -30°C to 50°C (w/65W TDP CPU); -30°C to 40°C with system fan (with 80W TDP CPU)
Storage Temperature	-40 ~ 85 °C (-40 ~ 185 °F)
Shock	IEC 60068-2-27; SSD: 50G @ wallmount, Half-sine, 11ms
Vibration	IEC 60068-2-64; SSD: 3Grms, 5Hz to 500Hz, 3 Axis
OS Software Supported	Windows 10, Ubuntu 20.04, 64-bit (Linux Kernel 5.4.0 or above)

ORDERING OPTIONS

1708585A: AAD-W480A1-000 Socket Type CPU Platform with 2x PCIe and CANBus 1708585B: AAD-W480A2-000 Socket Type CPU Platform with 2x PCIe, CANBus and System Fan NOTES: 1. Please adopt wide operation temperature RAM, SSD, HDD to get better and stable system performance. 2. For CPU TDP up to 80W or high level GPU card, choose system SKU with system fan version to get better thermal solution and system performance. 3. When installing a Graphics Card: Operating Temp is -20°C to 45°C with system fan