WEBS-45J1
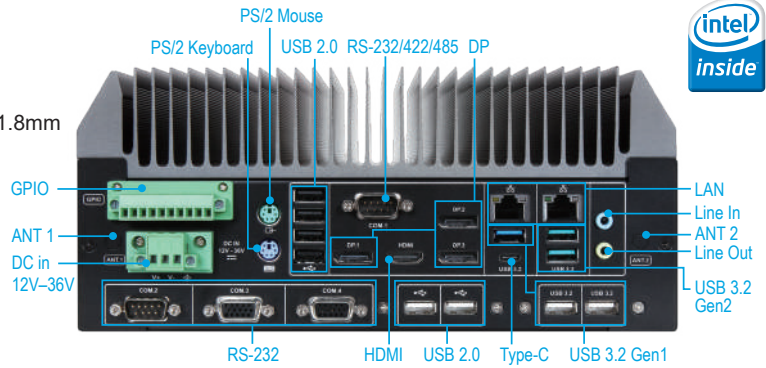
Embedded Rugged Fan-less System with 12th/13th Generation Intel® Core™ i3/i5/i7/i9 based Mini-ITX Board

intel inside

PS/2 Mouse
PS/2 Keyboard
USB 2.0 RS-232/422/485 DP

111.8mm

GPIO
ANT 1
DC in 12V–36V

LAN
Line In
ANT 2
Line Out
USB 3.2 Gen2

RS-232 · HDMI · USB 2.0 · Type-C · USB 3.2 Gen1

253mm · 201mm

Rugged | Fanless | Raid Function | HDMI | COM | GbE | USB 2.0/3.2 | DP | M2 | DDR 5

The WEBS-45J1 builds on Intel® desktop Q670E chipset and takes advantages of 12th/13th Generation Intel® Core™ i3/i5/i7/ i9 processors technologies that can support dual DDR5 memory and 2x SATA Ports for storage. Support two Gigabit Ethernet ports , One M.2 E Key, One M.2 M Key socket. The WEBS-45J1 is an ideal platform with rich I/O and high resolution for POS, kiosk, digital signage, and factory automation applications.

FEATURES

- Support 12th/13th Generation Intel® Core™ i3/i5/i7/i9 processors
- Support 64GB DDR5 4800 SO-DIMM
- Support triple DP and one HDMI displays
- Support One M.2 E Key, One M.2 M Key
- Support 4x COM ports (1x RS-232/422/485)
- 2x Antenna hole for WiFi module to use

System

M/B	WADE-8213
CPU	12th/13th Gen Intel® Core™ Processors CPU in LGA1700 package (35W TDP)
BIOS	AMI uEFI BIOS
Memory	Up to 64GB DDR5 4800 on two SO-DIMM sockets
Storage	2x SATAIII ports
Watchdog Timer	Programmable watchdog timer
TPM	TPM 2.0
H/W Status Monitor	System monitor (Voltage and Temperature)
Expansion	- 1x M.2 E Key 2230 with PCIe x1, CNVI for Wireless - 1x M.2 M Key 2242/2260/2280 with PCIe x4 and SATA3 for SSD

External I/O

Serial Port	4 x COM ports (1 x RS- 232/422/485)
Display	- 3x DP, resolution up to 8K - 1x HDMI
USB	- 3x USB 3.2 Gen 2 (2x Type A+ 1x Type C) - 3x USB 3.2 Gen 1 - 6x USB 2.0
Audio	Audio Jack with Line-out / Line-in with Realtek ALC897 Audio controller
Ethernet	- Intel® I210AT(1GbE) and Intel® I225LM(2.5GbE) Ethernet controller - 2x RJ45 connectors
GPIO	1x Programmable 8-bit Digital I/O
Other	- 2x Antenna hole for WiFi module - 1x EXT Power Switch

Power Supply Unit

Power Input	DC 12V ~ 36V with 3-pin Terminal Block Connector

Environmental

Operation Temperature	-20°C ~ 60°C
Storage Temperature	-40°C ~ 80°C
Relative Humidity	40°C, 95%RH non-condensing
Operation Vibration	1Grms/10-500Hz, IEC 60068-2-6
Operation Shock	50G, 11 msec, IEC 60068-2-27

Mechanical

Dimension	253 (W) x 201(D) x 111.8 (H) mm
Weight	4.5 Kg
Mounting	Wall mounting

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