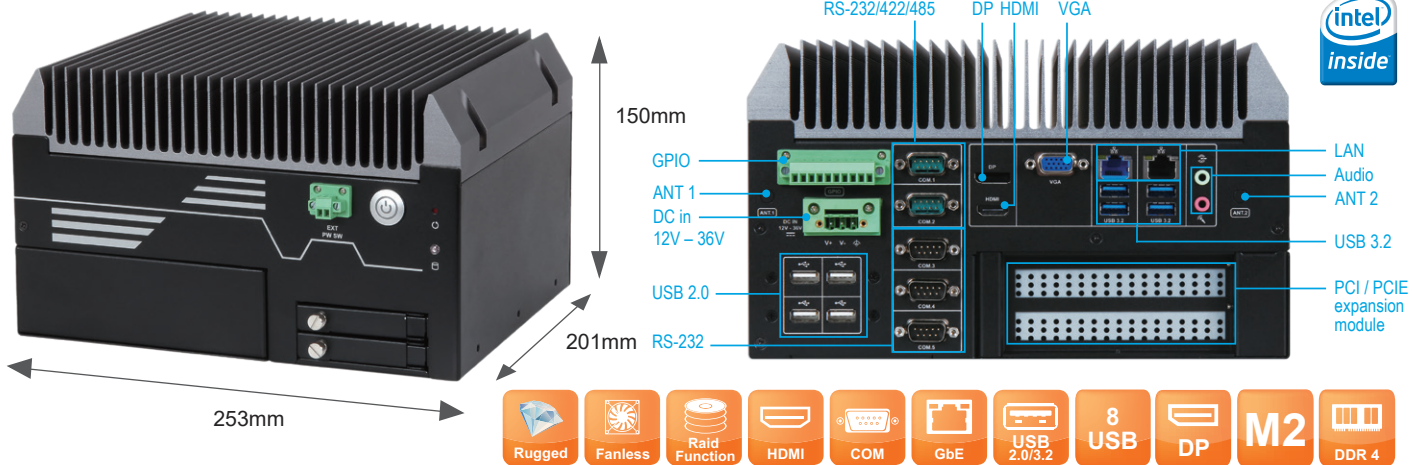


# WEBS-45H3

Embedded Rugged Fan-less System with 10<sup>th</sup> Generation Intel® Core™ i3/i5/i7/i9 based Mini-ITX Board



The WEBS-45H3 builds on Intel® desktop Q470E chipset and takes advantages of 10th Generation Intel® Core™ i3/i5/i7/i9 desktop processor technologies that can support dual DDR4 memory and 4x SATA Ports for storage. Support two Gigabit Ethernet ports, 2xPCIe Expansion slot option, One M.2 E Key, One M.2 M Key and one M.2 B Key socket. The WEBS-45H3 is an ideal platform with rich I/O and high resolution for POS, kiosk, digital signage, and factory automation applications.

## FEATURES

- Support 10<sup>th</sup> Generation Intel® Core™ i3/i5/i7/i9 processors
- Different add-on card expansion options
- Support 64GB DDR4 2400/2666 Non-ECC SDRAM
- Support triple displays including HDMI, DP and VGA
- Support One M.2 E Key, One M.2 M Key and one M.2 B Key socket
- Support 5 x COM ports ( 2 x RS-232/422/485)
- 2x Antenna hole for WiFi or 4G/GPS module to use
- Onboard TPM 2.0

## System

M/B	WADE-8212
CPU	10 <sup>th</sup> Gen Intel® Core™ Processors CPU in LGA1200 package (35W TDP)
BIOS	AMI UEFI BIOS
Memory	Up to 64GB DDR4 2400/2666 Non-ECC SDRAM on two SO-DIMM sockets
Storage	4x SATAIII ports (6Gb/s)
Watchdog Timer	Programmable by embedded controller
TPM	TPM 2.0
H/W Status Monitor	System monitor (Voltage, Fan Speed and Temperature)
Expansion	- 2x PCIe Expansion slot option: - (2x PCIe x16 slot (PCIe x8 Signal) or 2x PCIe x4 slot (PCIe x1 Signal)) - 1x M.2 E Key 2230 with PCIe x1, CNVI and USB2.0 for Wireless - 1x M.2 M Key 2242/2260/2280 with PCIe x4 and SATA3 for SSD - 1x M.2 B Key 3042/3052 with USB 3.0 Signal - 1x SIM Card socket - 2x USB 3.2 Gen 1 on board header

## External I/O

Serial Port	5x COM ports( 2x RS-232/422/485)
Display	- 1x HDMI 2.0a , resolution up to 4096x2160 @60Hz - 1x DisplayPort 1.2 , resolution up to 4096x2160 @60Hz - 1x VGA , resolution up to 1920x1200 @60Hz - 1x LVDS connector on board, resolution up to 1920x1200 @60Hz
USB	- 4x USB 3.2 Gen 1 - 4x USB 2.0
Audio	Audio Jack with Line-out / Mic-in with Realtek ALC887 Audio controller
Ethernet	Intel® I219LM and Intel® I225LM Ethernet controller
GPIO	1x Programmable 8-bit Digital I/O
Other	- 2x Antenna hole for WiFi or 4G/GPS module - 1x EXT Power Switch

## Power Supply Unit

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

Operation Temperature	-20°C ~ 60°C
Storage Temperature	-40°C ~ 80°C
Relative Humidity	40°C, 95%RH non-condensing
Operation Vibration	5Grms/10-500Hz, IEC 60068-2-6
Operation Shock	50G, 11 msec, IEC 60068-2-27

## Mechanical

Dimension	253(W) x 201(D) x 150(H) mm
Weight	8 Kg
Mounting	Wall mounting



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