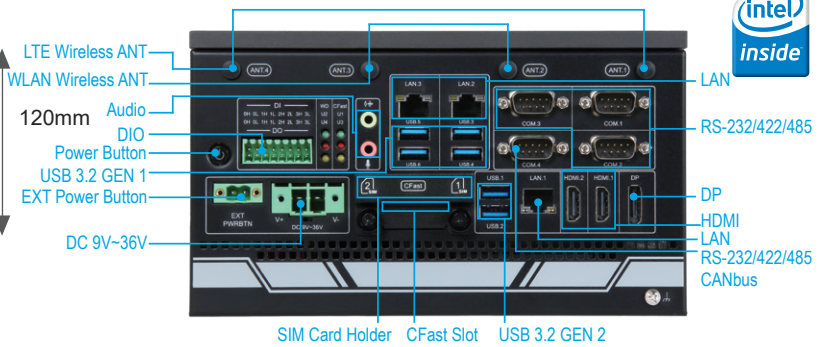
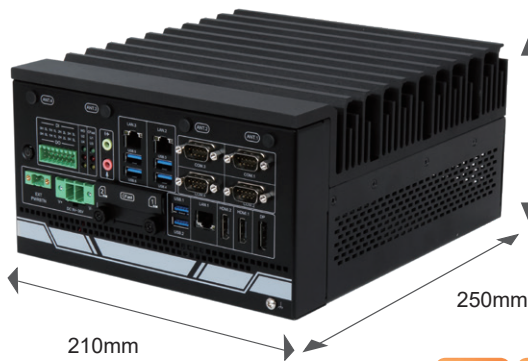


# WEBS-85H1

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



The WEBS-85H1 builds on Intel® desktop W480E chipset and takes advantages of 10<sup>th</sup> Generation Intel® Core™ i3/i5/i7/i9 processors technologies that can support dual DDR4 memory. Support three Gigabit Ethernet ports, one M.2 M Key socket, one M.2 E Key socket and one Mini-PCIe socket. The WEBS-85H1 is an ideal platform with rich I/O and high resolution for POS, kiosk, digital signage, factory automation and surveillance security monitoring applications.

## FEATURES

- Support 10<sup>th</sup> Generation Intel® Core™ i3/i5/i7/i9 processors
- Support 64GB DDR4 2400/2666 Non-ECC SDRAM
- Support triple displays including HDMI 1.4, HDMI 2.0, DP
- Support Mini-PCIe socket, M.2 2242/60/80 M-key socket and M.2 2230 E-key socket
- Support 4x COM ports (1x RS-232/422/485, CANbus (2.0 A/B) selected by on board jumper)
- 4 x Antenna hole for WiFi and 4G/GPS module to use
- Onboard TPM 2.0

## System

M/B	Proprietary
CPU	10 <sup>th</sup> Generation Intel® Core™ i3/i5/i7/i9 Processors (35W TDP)
BIOS	AMI UEFI BIOS
Memory	2x SO-DIMM sockets support DDR4 2400/2666 Non-ECC Up to 64 GB
Storage	- 1x Type II CFast slot - 2x 2.5" SSD slots
Watchdog Timer	HW WDT Enable (WDT_EN)
TPM	TPM 2.0
Expansion	- 1x Mini PCIe socket (supports mSATA or cellular module) - 1x M.2 2242/60/80 M key socket (PCIe x4 & SATA mode) - 1x M.2 2230 E key socket (supports CNVi, Wi-Fi/BT module)

## External I/O

Serial Port	4x COM port (1x RS-232/422/485, CANbus (2.0A/B) selected by on board jumper)
Display	- 1x HDMI 2.0, supports up to 4096 x 2160 @ 60 Hz - 1x HDMI 1.4, supports up to 4096 x 2160 @ 30 Hz - 1x DP 1.2, supports up to 4096 x 2304 @ 60 Hz
USB	- 2x USB 3.2 Gen 2 - 4x USB 3.2 Gen 1
Audio	Mic-in / Line-Out
Ethernet	3x Gigabit Ethernet (Intel® I210-IT)
DIO	4x DI, 4 x DO
SIM	2x nano SIM card slot

## Power Supply Unit

Power Input	9 to 36 VDC, 2-pin terminal block connector
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## Environmental

Operation Temperature	-20°C ~ 60°C
Storage Temperature	-40°C ~ 80°C
Relative Humidity	60°C, 95% RH non-condensing
Operation Vibration	Desk mount: 0.5 Grms (10 Hz to 500Hz) System: 1Grms (10 Hz to 500Hz)
Operation Shock	Desk mount: 15G, 11 msec System: 50G, 11 msec

## Mechanical

Dimension	210(W) x 250(D) x 120(H) mm
Weight	4.5 Kg
Mounting	Desk mount

