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4,654,520	8,078,511
8,901,705	4,346,501
6,805,210	6,688,570



IV310CS

**INTEL® 8TH/ 9TH COFFEE LAKE CORE™ I9/
I7/I5/I3 FANLESS EMBEDDED COMPUTER**



- Intel® 9th & 8th Gen Coffee Lake LGA1151 Socket Processor
- 2x DDR4 SO-DIMM up to 32GB
- 1 x M.2 M 2280, 1 x M.2 E 2230, 1 x mPCIe
- 4 x USB3.0, 2x DP1.2, 1xHDMI, 2 x LAN
- 2 x 2.5" SATA SSD Easy Swap Tray
- 4 x COM Ports (2 x RS232/422/485)(optional)
- Wide range DC-Input 9-36V DC (optional)

Specifications

SYSTEM

CPU	Intel® 9th & 8th Gen Coffee Lake LGA1151 Socket Processor
Memory type	DDR4 2666MHz, 2 x 260-pin SO-DIMM, Max. 32GB (Non-ECC)
CHIPSET	Intel® Intel® Q370 Chipset
I/O CHIPSET	Nuvoton NCT6116D
GRAPHICS	Intel® HD Graphics
Expansion Slot	1 x Mini PCIe Full size (SATA, USB, PCIe) 1 x M.2 2260 / 2280 M key (PCIe, SATA) 1 x M.2 2230 E key (PCIe, USB 2.0)
Audio	1 x Mic-in 1 x Line-out
BIOS	AMI BIOS, 256 Mbit SPI

DISPLAY

Display	1 x HDMI, Up to 4K (3840 x 2160) @30 Hz 2 x DisplayPort, Up to 4K (4096 x 2160) @60 Hz
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STORAGE

SATA	2 x 2.5" SSD, Hot Swappable SSD/HDD slot
M.2	1 x M.2 2260 / 2280 M key (PCIe, SATA)

ETHERNET

Ethernet	2 x Intel® Gigabit Ethernet -Intel I219-LM Giga LAN -Intel I210-AT Giga LAN
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FRONT I/O

Display	2 x Display Port 1.2, 1 x HDMI 1.4
Ethernet	2 x LAN with RJ45
USB	4 x USB 3.1 Gen. 2
HDD Tray	2 x 2.5" SSD Tray
DC-IN	1 x DIN 4-pin DC Jack (std.)
On/off	1 x Power Button

REAR I/O

Antenna	4 x Antenna Hole
DC-IN	1 x 3-pin DC terminal block (optional for wide voltage)

COM	2xRS232; 2xRS232/422/485 (Select by BIOS) (optional)
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POWER

Power input	12V (Standard) 9~36V (optional)
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OPERATING SYSTEM

OS	Windows® 10 64-bit / Linux (support by request)
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PHYSICAL

Dimension	246(L) x 268.5(W) x 100 (H)mm
Weight	5.7 Kg (TBD)
Chassis	SECC
Heatsink	Heatsink Aluminum Alloy, Corrosion Resistant
Reliability	Passive Cooling Designed

ENVIRONMENTAL

Green Product	RoHS, WEEE compliance
Operating Temp.	-20 to 60°C
Storage Temp.	-40 to 85°C
Relative Humidity	5% to 95%, non-condensing

MIL-STD-810 SPECIFICATIONS (OPERATING)

Method 502.5 Procedure 2	Low Temperature	-20°C, 4 hours, ±3°C
Method 501.5 Procedure 2	High Temperature	+55°C, 4 hours, ±3°C
Method 507.5	Humidity	85%-95% RH without condensation, 24 hours/ cycle, conduct 10 cycles.
Method 514.6	Vibration	5-500Hz, Vertical 2.20Grms, 40mins x 3axis
Method 516.6	Shock	6 Grms, 11ms, 3 axes.

MIL-STD-810 SPECIFICATIONS (NONE-OPERATING)

Method 502.5 Procedure 1	Low Temperature Storage	+71°C, 4 hours, change rate: ≤ 20°C/ Hour +63°C, 240 hours (By request)
Method 514.6	Vibration	5-500Hz, Vertical 2.20Grms, 40mins x 3axis.
Method 516.6	Shock	6 Grms, 11ms, 3 axes.

Ordering Information

IV310CS-XI12

Intel® 8th/ 9th Coffee Lake Core™ i9/ i7/i5/i3 Fanless embedded computer,
2 xDDR4 , 1xHDMI,2 xDP,4x USB3.1, 2 x LAN,Extended Temp. -20 ~ 60°C,12VDC IN

IV310CS-XI36

Intel® 8th/ 9th Coffee Lake Core™ i9/ i7/i5/i3 Fanless embedded computer,
2 xDDR4 , 1xHDMI,2 xDP,4x USB3.1, 2 x LAN,Extended Temp. -20 ~ 60°C,9~36VDC IN

Dimensions

