

ICD OPS i7 Z Product Overview

Type: ☐ Motherboard ☒ Complete PC

Version V1.0

CUSTOMER HUAWEI

Product Name ICD OPS i7 Z

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1. Product Overview

ICD OPS Z Series are standard pluggable computers developed based on Intel®Core 10G i7-10700 processor and Intel OPS-C design specification, and compatible with Intel 11th Core Processor, with advantages of high processing performance, low power consumption, low noise, low space occupancy, etc., and thus can meet the need of concise and convenient application scenarios that education and conference have been pursuing, and promote the digitalization process of education and conference.

ICD OPS Z Series have the following features:

- Based on Intel standard OPS-C design specification development;
- Support up to 3-channel HD display output, including 1×HDMI 1.4 Out (up to 4K@30Hz display output) and 1×DP1.2 Out (up to 4K@60Hz display output) on the front panel, and 1×HDMI 2.0 Out and up to 4K@60Hz display output on the rear interface using standard JAE 80-PIN interface.
- Support 2×SO-DIMM DDR4 memory, up to 16GB memory expansion of 2×SO-DIMM DDR4, and up to 2666MHz frequency memory.
- Support 1×M.2 2280 SSD, adaptive to NVME SSD and SATA SSD to meet the diversified customization need of customers.
- Support 1×M.2 2230 Wi-Fi Module, up to Wi-Fi 5 and BT 4.2.
- The rear panel, using standard JAE 80-PIN connector, can adapt to HUAWEI OPS-enabled SMART Board and large screen.
- Support system OTB and one-touch ghost, which can provide users with a good experience.

2. Product Description

2.1 System Description

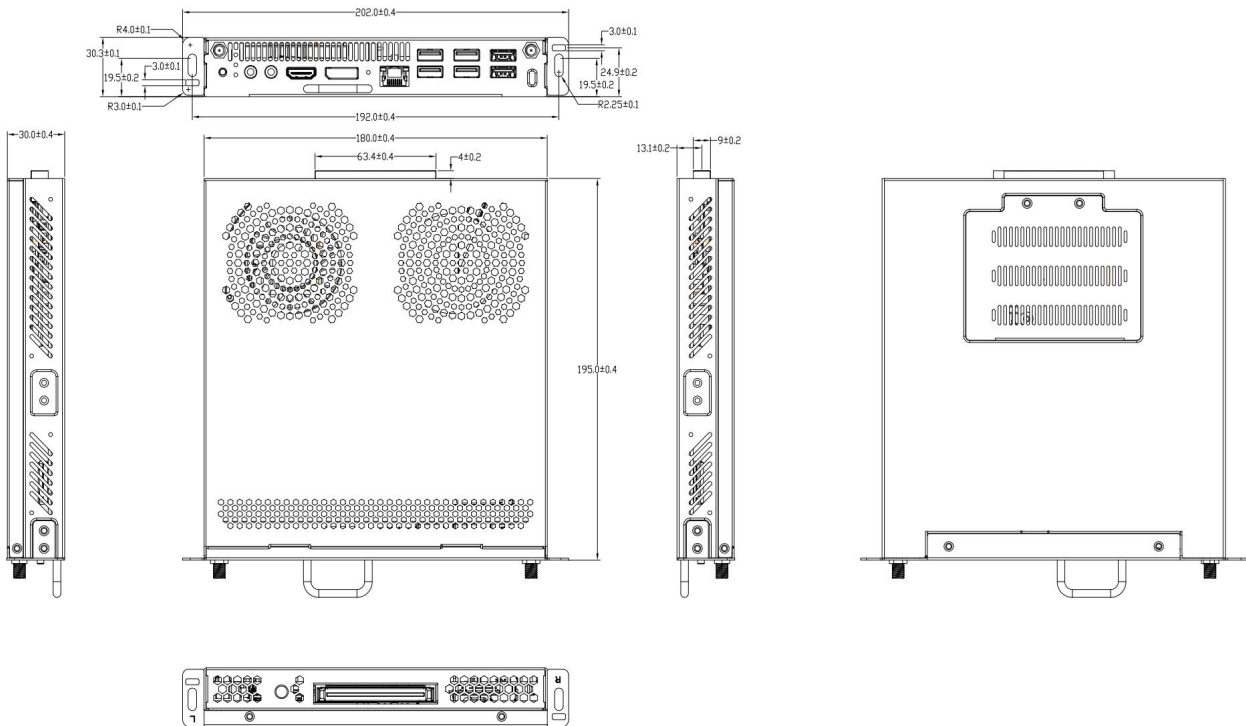
Processor	Intel 10 th Core i7-10700 Processor
Chipset	Intel [®] HM570 PCH
Memory	DDR4 2666MHZ 16GB (2×8GB)
Graphics	Integrated Graphics Intel [®] UHD Graphics 630
Display Interface	IO: 1×HDMI 1.4, support up to 4K@30Hz display output; 1×DP 1.2, support up to 4K@60Hz display output; JAE 80-PIN: 1×HDMI 2.0, support up to 4K@60Hz display output;
Storage	512GB SSD (1×M.2 2280)
Network	1×Gigabit Ethernet Port,
Audio	IO Panel: 1×MIC; 1×Audio; JAE 80-PIN: 1×Audio
USB	IO: 3×USB2.0, Type-A; 3×USB3.0, Type-A; JAE 80-PIN: 1×USB3.0 (excluding USB2.0); 3×USB2.0
Serial Port	1 COM (JAE 80-PIN)
Wi-Fi/BT or Extended Interface	M.2 2230 Interface Wi-Fi/BT 2-in-1.Wi-Fi supports 802.11a/b/g/n/e/ac.BT supports bluetooth4.2
Power Input	1×DC_IN Interface Power JAE 80-PIN: DC_IN (within connection PIN)
BIOS	AMI UEFI BIOS
Operating System	☐ Win7 ☒ Win10 ☐ Win11 ☐ 32bit ☒ 64bit ☐ Linux version: ☐ Android version:

2.2 Overall Appearance



2.3 Overall Dimension (Hex-vision Image)

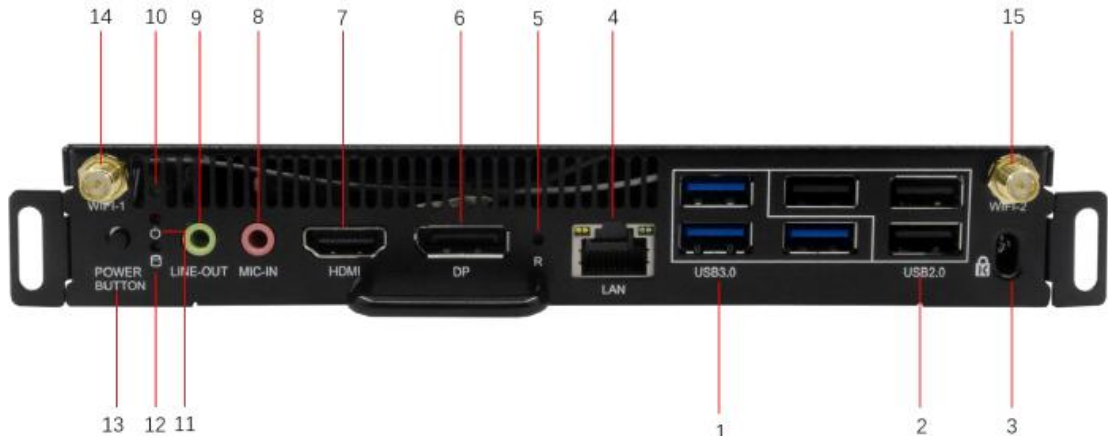
Dimensional Unit indicted herein: mm



2.4 Overall Specification

Dimension	195mm*180mm*30mm
Color	Black
Net Weight	1.42kg
Gross Weight	1.70kg

2.5 Front Panel Interface Specification

		
No.	Interface Name	Specification
1	USB3.0	3×standard USB 3.0 interface.
2	USB2.0	3×standard USB 2.0 interface.
3	Keyhole	Keyhole of equipment safety lock
4	LAN	Standard RJ45 network interface with 10/100/1000M network input support
5	R	System Restore button, press and hold for 5s in startup time to trigger System Restore.
6	DP	Standard DP display interface, support up to 4K@60Hz display output
7	HDMI	Standard HDMI display interface, support up to 4K@30Hz display output
8	MIC_IN	Standard MIC_IN audio input interface
9	LINE_OUT	Standard LANE_OUT audio output interface
10	DC_LED	Power-On indicator: green and Normally ON, once OPS is powered on.
11	Power_LED	Start-Up indicator: red and Normally ON, once OPS is botted properly.
12	HDD_LED	HD indicator: yellow and flashing, once booted and detected hard disk.
13	POWER BUTTON	Start-up button: when the power-on indicator is Normally On, if you press the button briefly, OPS will start booting.
14	Wi-Fi-1	Wireless Network Card Antenna 1, available for connecting external antenna
15	Wi-Fi-2	Wireless Network Card Antenna 2, available for connecting external antenna

2.6 Rear Panel Interface Specification

		
No.	Interface Name	Specification
1	IAE 80-PIN interface	Standard 80-PIN interface, with features including: 1. 1×USB3.0; 3×USB2.0 2. 1×HDMI 2.0 Out 3. 1×UART 4. DC_IN PS
2	DC_IN Interface	2.5mm*5.2mm DC interface, support up to 19V 6.32 A power input

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