DS-200

8th Generation Intel® Core™ i3/i5/Celeron SDM Player with Triple 4K Output

Features

- Intel SDM-L (Smart Display Module - Large) form factor
- 8th Intel® Core™ i3-8100H, i5-8400H processor, 9th Intel® Core™ Celeron G4930E
- Dual channel DDR4-2400/2666 SO-DIMM, up to 32 GB
- 3 independent displays: Golden Finger (HDMI 2.0, DP1.2), Front Bracket (mini DP++)
- Supports Real 4K resolution
- Supports Microsoft Windows 10 with proven compatibility
- Easy installation and maintenance with Intel® SDM slot-in design

WISE-PaaS/DeviceOn WISE-PaaS/SignageCMS McAfee Acronis

Windows Embedded Windows 10 intel IoT Solutions Alliance Premier

Introduction

The DS-200 design is based on the Intel SDM specification and is powered by 8th Gen. Intel® Core™ processors. DS-200 delivers 4K UHD output and smooth content streaming via a card edge connector, while maintaining high-energy efficiency (45 watts). DS-200 allows slot-in integration that reduces space requirements and lowers deployment and field maintenance costs. It also features built-in I/O such as HDMI, mini DP++, USB 3.1, and a single LAN (RJ-45). DS-200 enables media playback and display and is ideal for all-in-one signage applications with space constraints.

Specifications

Form Factor	SDM	L (Large)		
Processor System	CPU	Intel i5 8400H	Intel i3 8100H	Intel Celeron G4930E
	TDP	45W	45W	35W
	System Chipset	Intel QM370		
	BIOS	AMI uEFI 128 Mbit		
Memory	Technology	2 x DDR4 2400/2666MHz 260-pin SODIMM		
	Max. Capacity	32GB (16GB per SODIMM)		
Display	Controller	CPU integrated		
	Graphic Engine	Intel UHD Graphics 630		
	Video format	H.265/HEVC, H.264/AVC, MPEG2, VC1/WMV9, VP8, JPEG/MJPEG, VP9		
	Output	HDMI 2.0 & DP1.2 from golden finger, mini-DP++ from front bracket		
	Max. Resolution	3840 x 2160 @ 60Hz		
Storage	SATA	M.2 2242 M Key		
I/O Interface	Golden Finger	PCIe x8. The pin define follows Intel® SDM specifications		
	Mini DP++	1		
	USB	4 x USB3.1 Gen.2		
	LAN(RJ-45)	1		
	Audio	1 x SPDIF for Audio out and Mic in		
	M.2	1 x 2230 (E key) for WiFi module		
	SDM I/O Interface	USB3.1 x1, HDMI 2.0 x1, Display Port 1.2 x1, RS232 x1, 12V DC-In		
Power Requirement	Management	ACPI 3.0		
	Power Consumption	Max: 12V@8A Turbo On: 12V@8A, Turbo Off: 12V@4A		
	Input Type	ATX/AT Mode		
	Input Voltage	12V DC-In (± 5%, Via Golden Finger)		
Watchdog Timer	Output	Interrupt, system reset		
	Interval	Programmable 1~255sec. by SUSI4.0 API		
Physical Characteristics	Dimensions (W x H x D)	175 x 100 x 20 (SDM-L compliant)		
	Weight	1 Kg		
Environment	Operating Temperature	0 ~ 55 °C @ Natural Convection Chamber		
	Thermal Solution	Active		
	Relative Humidity	95% @ 40 °C (non-condensing), Operating		
Software Development Kit	Operating System	Windows 10 (64bit)		
	Signage Software	WISE-PaaS/RMM, WISE-PAAS/SIgnageCMS, WISE-PaaS/EdgeSense		
Certification	Electromagnetic	CE, FCC, RED		

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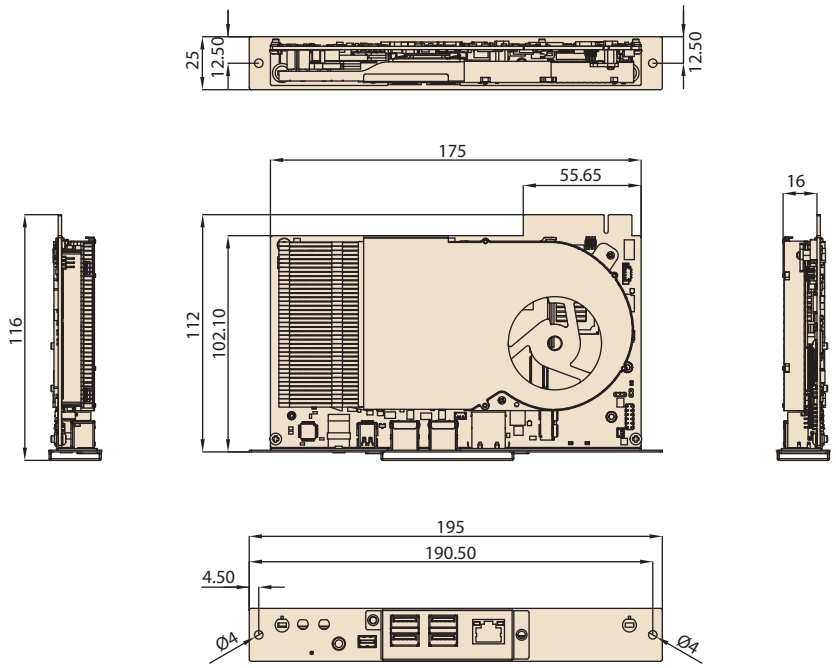
All product specifications are subject to change without notice.

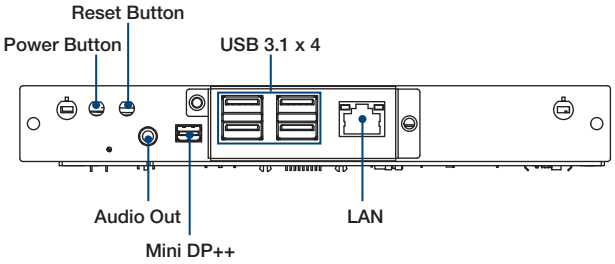
Dimensions

Unit: mm



External I/O

Front



Ordering Information

Part Number	Description
DS-200GB-T0A1E	SDM, CFL-H i3-8100H, Barebones
DS-200GB-U5A1E	SDM, CFL-H i5-8400H, Barebones
DS-200GB-U4A1E	SDM, CFL-H Re Celeron G4930E, Barebones

Packing List

Part Number	Description
	1 x DS-200
	1 x English Manual
	1 x China RoHS

Optional Items

Part Number	Description
EWM-W163M201E	Wifi/BT module, 802.11 ac/a/b/g/n, BT 4.1

Embedded OS

Part Number	Description
20706WX9VS0019	Windows 10 IoT Enterprise 2019 LTSC 64bit Value
20706WX9ES0023	Windows 10 IoT Enterprise 2019 LTSC 64bit Entry