

DS-202

Intel Elkhart Lake SDM Player with 4K output



Features

- Intel SDM-L (Smart Display Module - Large) form factor
- Intel Elkhart Lake processor
- DDR4 2666, SO-DIMMx2
- 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



Introduction

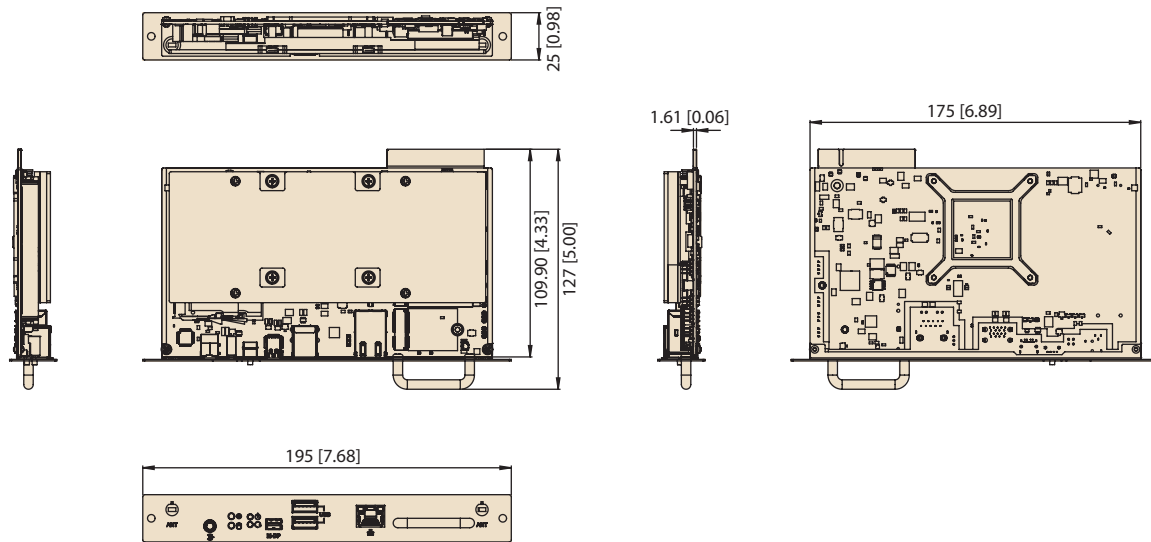
The DS-202 design is based on the Intel SDM specification and is powered by Intel® Elkhart Lake processors. DS-202 delivers 4K UHD output and smooth content streaming via a card edge connector. DS-202 allows slot-in integration that reduces space requirements and lowers deployment and field maintenance costs. It also features built-in I/O such as HDMI, mini DP, USB 3.0, and a single LAN (RJ-45). DS-202 enables media playback and display and is ideal for all-in-one signage applications with space constraints.

Specifications

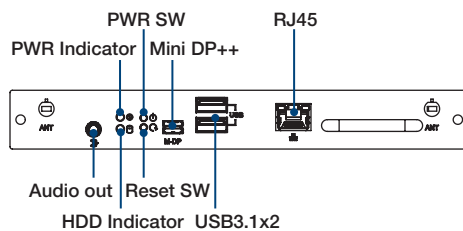
Form Factor	SDM	L (Large)
Processor System	CPU	Intel Elkhart Lake, Atom® x6413E 1.5GHz
	BIOS	AMI uEFI 256 Mbit
Memory	Technology	2 x DDR4 2666MHz 260-pin SODIMM
	Max. Capacity	32GB (16GB per SODIMM)
Display	Controller	CPU integrated
	Graphic Engine	Integrated in CPU
	Output	HDMI 2.0 & DP1.2 from golden finger, mini-DP from front bracket
	Max. Resolution	3840 x 2160 @ 60Hz
Storage	SATA	(M key) for SSD
I/O Interface	Golden Finger	PCIe x8. The pin define follows Intel® SDM specifications
	Mini DP	1
	USB	USB 3.2 gen 2 x 2
	LAN(RJ-45)	1
	Audio	1 x Audio Jack for both Audio Out & Mic In
	M.2	1 x 2230 (E key) for WiFi module
	SDM I/O Interface	USB3.0 x1, HDMI 2.0 x1, Display Port 1.2 x1, UART x1, PCIe x1, 12V DC-In
Power Requirement	Management	ACPI 3.0
	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	Fanless
	Relative Humidity	95% @ 40 °C (non-condensing), Operating
Software Development Kit	Operating System	Windows 10 (64bit)
	Software (Optional)	WISE-PaaS/RMM, WISE-PAAS/SignageCMS, WISE-PaaS/EdgeSense
Certification	Electromagnetic	CE, FCC (No RED certification)

Dimensions

Unit: mm [inch]



Front View



Ordering Information

Part Number	Description
DS-202GB-U0A1E	DS-202, x6413E, The Barebone for Standard

Note: RAM / Storage and Operating System bundled by request

Embedded OS

Part Number	Description
20706WLE1S0007	Win11 IoT LTSC EN, 64b Entry
20706WX1ES0016	Win10 IoT LTSC EN, 64b Entry

RAM and Storage

Memory

Part Number	Description
SQR-SD4S4G3K2HNPG	Memory, SQ, DDR4 4GB, Hynix
SQR-SD4S8G3K2HNBG	Memory, SQ, DDR4 8GB, Hynix
SQR-SD4S16G3K2HNBG	Memory, SQ, DDR4 16GB, Hynix
SQR-SD4N4G3K2WNERG	Memory, SQ, DDR4 4GB, Winbond
SQR-SD4N8G3K2WNERG	Memory, SQ, DDR4 8GB, Winbond
SQR-SD4N4G3K2NNPHB	Memory, SQ, DDR4 4GB, Nanya
SQR-SD4N8G3K2NNBHB	Memory, SQ, DDR4 8GB, Nanya

Storage

Part Number	Description
SQF-S4BV1-64GDSDC	Storage, M.2 2242, SQ, BiCS5, 64GB
SQF-S4BV1-128GDSDC	Storage, M.2 2242, SQ, BiCS5, 128GB
SQF-S4BV1-256GDSDC	Storage, M.2 2242, SQ, BiCS5, 256GB
SQF-S4BV2-512GDSDC	Storage, M.2 2242, SQ, BiCS5, 512GB