

DS-202

Intel Elkhart Lake SDM Player with 4K output



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)

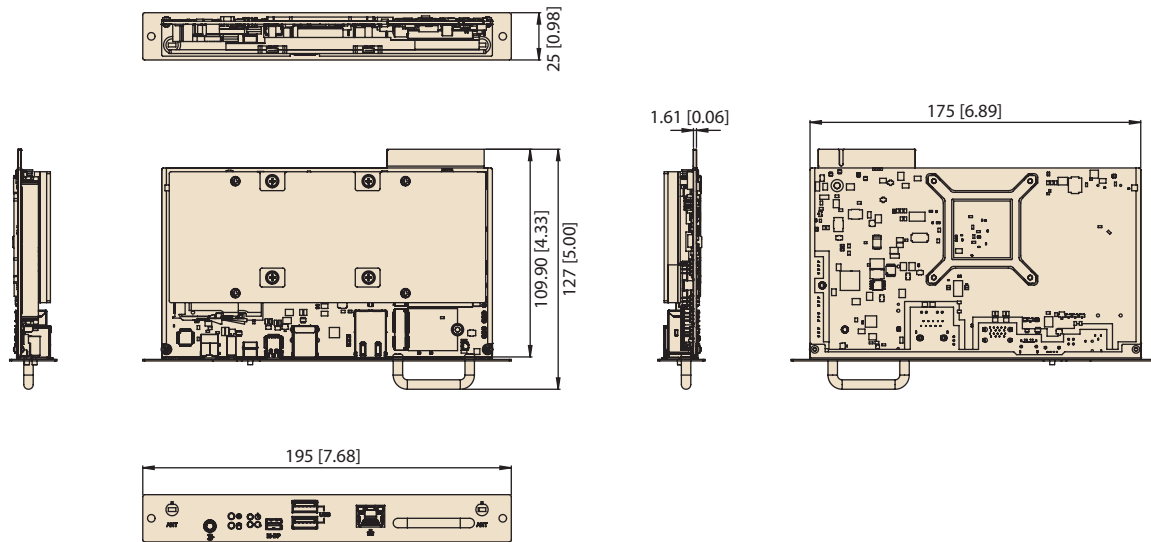
Features

- 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

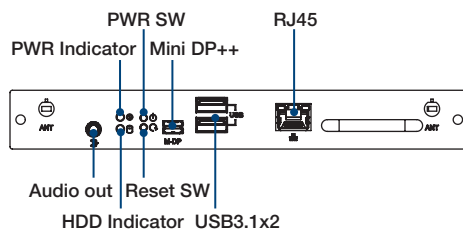
WISE-PaaS/ DeviceOn WISE-PaaS/SignageCMS McAfee Acronis

Dimensions

Unit: mm [inch]



Front View



Ordering Information

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

Optional Items

Part Number	Description
Memory, SQ, DDR4 2GB	SQR-SD4N2G2K6SNXFB
Memory, SQ, DDR4 4GB	SQR-SD4N4G2K6SNPCB
Memory, SQ, DDR4 8GB	SQR-SD4N8G2K6SNBCB
Memory, SQ, DDR4 16GB	SQR-SD4N16G2K6SNBCB

Part Number	Description
Storage, M.2 2242, SQ, TLC, 32GB	SQF-SM4V1-32GCSBC
Storage, M.2 2242, SQ, TLC, 64GB	SQF-SM4V2-64GCSBC
Storage, M.2 2242, SQ, TLC, 128GB	SQF-SM4V2-128GCSBC
Storage, M.2 2242, SQ, TLC, 256GB	SQF-SM4V2-256GCSBC
Storage, M.2 2242, SQ, TLC, 512GB	SQF-SM4V2-512GCSBC