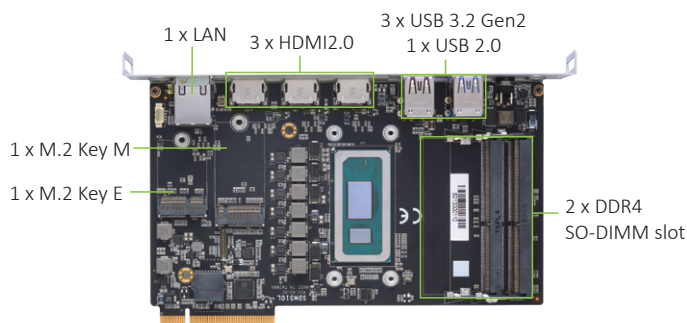


SDM510L

Intel® Smart Display Module Large (Intel® SDM-L) with 13th/12th Gen Intel® Core™ i7/i5/i3 or Intel® Celeron® Processor and Intel® Iris® X^e Graphics with 8K60Hz or up to Four 4K60Hz Videos Supported



Features

- Intel® Smart Display Module (Intel® SDM) specification
- 13th/12th gen Intel® Core™ i7/i5/i3 or Intel® Celeron® processor
- 2 DDR4-3200 SO-DIMM
- Supports M.2 Key E and M.2 Key M slots
- 3 HDMI, 3 USB 3.2 Gen2, 1 USB 2.0, and 1 LAN
- Supports Intel® OpenVINO™ and Intel vPro®



DDR4

USB 3.0

Display

M.2



▲ Side view



▲ Rear view

Specifications

Core System

CPU	13th/12th gen Intel® Core™ i7/i5/i3 or Intel® Celeron® processor
System Memory	2 x 260-pin DDR4-3200 SO-DIMM
Chipset	SoC integrated
BIOS	AMI
SSD	1 x M.2 Key M 2242 slot
WatchDog Timer	255 levels, 1 to 255 sec.
Expansion Interface	1 x M.2 Key E 2230 slot for Wi-Fi/Bluetooth
Battery Lithium	Lithium 3V/220 mAh
Power Input	Through SDM golden finger +12V and +3.3VSB

* Maximum power consumption:

i7-1260P with turbo: 70W

i5-12600HE with turbo: 120W

i3-1215UE with turbo: 60W

U300E with turbo: 55W

Celeron® 7305E (no turbo mode): 20W

Noted: Please check the monitor's maximum power supply to the SDM.

Display

Graphic	Intel® Iris® X ^e Graphics (Intel® Core™ i7/i5) Intel® UHD Graphics (Intel® Core™ i3 and Celeron®)
Display Interface	3 x HDMI 2.0 (4K @ 60Hz) (rear I/O) 1 x HDMI 2.1 (8K) (edge connector) 1 x DisplayPort 1.4 (8K) (edge connector) Noted: 1. We highly recommend configuring the SDM510L with a minimum of 16GB of memory for optimized performance with four 4K (or 8K) videos. 2. 4K/8K video playback results may vary depending on the video player.

I/O

SDM Edge Connector	1 x USB 3.0 1 x HDMI 2.1 1 x DisplayPort 1.4 1 x Serial TX/RX 2 x I ² C
Ethernet	2.5GbE with Intel® I225, supporting Wake-on LAN (Intel® Core™ i7 and i5 support Intel vPro® function)
Audio	Audio by HDMI
USB	3 x USB 3.2 Gen2 1 x USB 2.0

Mechanical and Environmental

Dimensions	175 x 100 mm
Weight (net/gross)	252g/340g
Board Thickness	1.6 mm
Operating Temperature	0°C to 60°C (+32°F to +140°F)
Humidity	10% to 95% relative humidity, non-condensing

Ordering Information

Standard

SDM510L-I5H-3H1 (P/N: E38X510L01)	SDM-L module with 12th gen Intel® Core™ i5-12600HE processor (45W), 2 SO-DIMM, 1 M.2 SSD, 3 HDMI, 1 LAN, 3 USB 3.2 Gen2, and 1 USB 2.0
SDM510L-I3U-3H1 (P/N: E38X510L00)	SDM-L module with 12th gen Intel® Core™ i3-1215UE processor (15W), 2 SO-DIMM, 1 M.2 SSD, 3 HDMI, 1 LAN, 3 USB 3.2 Gen2, and 1 USB 2.0
SDM510L-CLU-3H1 (P/N: E38X510L02)	SDM-L module with 12th gen Intel® Celeron processor 7305E (15W), 2 SO-DIMM, 1 M.2 SSD, 3 HDMI, 1 LAN, 3 USB 3.2 Gen2, and 1 USB 2.0
SDM510L-I7P-3H1 (P/N: TBC)	SDM-L module with 12th gen Intel® Core™ i7-1260P processor (28W), 2 SO-DIMM, 1 M.2 SSD, 3 HDMI, 1 LAN, 3 USB 3.2 Gen2, and 1 USB 2.0
SDM510L-U3E-3H1 (P/N: TBC)	SDM-L module with 13th gen Intel® processor U300E (15W), 2 SO-DIMM, 1 M.2 SSD, 3 HDMI, 1 LAN, 3 USB 3.2 Gen2, and 1 USB 2.0
SDML-I5U-3H1 (P/N:TBC)	SDM-L module with 13th gen Intel® processor i5-1335U (15W), 2 SO-DIMM, 1 M.2 SSD, 3 HDMI, 1 LAN, 3 USB 3.2 Gen2, and 1 USB 2.0

Optional

8812T1500AOE	Wi-Fi kit
E29R323100	Intel AX210 Wi-Fi kit
M.2 SSD	M.2 Key M 2242; 64GB to 256GB
DDR4 SO-DIMM	DDR4 4GB to 32GB

Mouser Electronics

Authorized Distributor

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