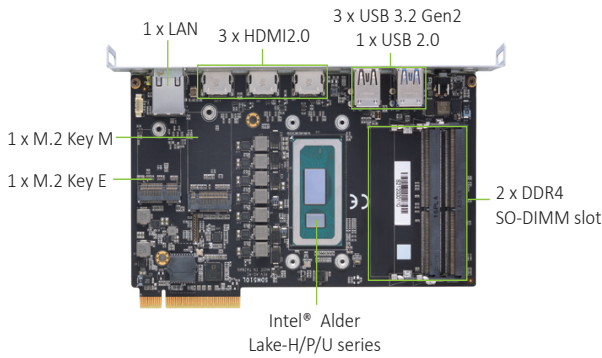
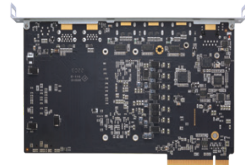


# SDM510L NEW

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



▲ Side View



▲ Rear View

## Features

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



## Specifications

### Core System

CPU	12th gen Intel® Core™ i7/i5/i3 or Intel® Celeron® processor (Alder Lake-H/P/U series)
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 & +3.3VSB

Max. power consumption with turbo on i5-12600HE:120W, i3-1215UE:60W, Celeron 7305E:20W (No turbo mode)

Noted: Please check monitor maximum power supply to SDM.

### Display

Graphic	Intel® Iris® Xe Graphics (Core™ i7/i5) Intel® UHD Graphics (Core™ i3 and Celeron®)
Display Interface	3 x HDMI 2.0 (4K60Hz) (rear I/O) 1 x HDMI 2.1 (8K) (edge connector) 1 x DisplayPort 1.4 (8K) (edge connector) Noted: 1. Highly recommend configuring the SDM510L with minimum 16GB memory for four 4K (8K) optimized video performance. 2. 4K/8K video playback results may vary based on 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 <sup>2</sup> C
Ethernet	2.5GbE with Intel® I225 and supports 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%- 95% relative humidity, non-condensing

**Ordering Information**

**Standard**

SDM510L-I5H-3H1	SDM-L module with 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	SDM-L module with 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	SDM-L module with Intel® Celeron 7305E processor (15W), 2 SO-DIMM, 1 M.2 SSD, 3 HDMI, 1 LAN, 3 USB 3.2 Gen2, and 1 USB 2.0

**Optional**

8812T1500A0E	Wi-Fi kit
M.2 SSD	M.2 Key M 2242; 64GB to 256GB
DDR4 SO-DIMM	DDR4 4GB to 32GB

## Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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