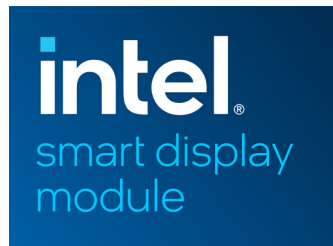


Order Code: 100016154

# Intel® Smart Display Module (Intel® SDM)

## The Essential SDM module

The Essential SDM module,  
optimised for signage applications.



The Essential SDM module is optimised for signage applications, driving video content in Ultra-High Definition (UHD) resolution, suitable for flight information (FIDS) in airport terminals and retail or corporate signage applications.

With the Intel chipset, Elkhart Lake x6413E, benefit from the highest performance at low power consumption, reducing the Total Cost of Ownership for 24/7 applications.



## Benefits

- **High reliability** – using Intel embedded chipsets provides a robust solution for 24/7 applications in the IoT and signage world.
- **Plug & Play with Sharp/NEC Large Format Displays** – combine the SDM Essential module with a Sharp/NEC display for a 100% working solution, out of the box.
- **Long term support** – with the latest Windows 10 IoT LTSC 2021, receive software servicing updates from Microsoft for 10 years.
- **Superb video playback** – native media codec support of h.264/h.265/VP8/VP9 for smooth 4Kp60 playback.
- **High security** – with integrated TPM2.0 capability using Intel® Platform Trust Technology (Intel® PTT).
- **Manageability** – utilise the integrated watchdog to automatically restart applications.
- **Low noise** – the highly efficient Elkhart Lake CPU results in low heat dissipation enabling the module to be cooled using passive heatsink.

## Technical Specifications

<b>ORDER CODES</b>	
SDM-EHL-ATO-D4/64/W10IoT B	100016154
<b>PC CONFIGURATION</b>	
CPU	Intel Elkhart Lake Atom® x6413E Processor 4x 1.5GHz
BIOS	AMI uEFI 256 Mbit
RAM	8GB dual channel
Mass Storage	128GB M.2 SSD (SATA) - configuration options: 256GB, 512GB
Graphics (board)	Intel® UHD Graphics for 10th Gen Intel® Processors HW Codec: H.265/HEVC, VP8, VP9, MPEG2, JPEG, VC1/WMV9. OpenGL4.5; DirectX 12; OpenCL 1.2
Operating System	Windows 10 IoT Enterprise LTSC 2021, 64bit (pre-loaded), different configurations available on request (Build-to-order)
Hardware Management Tools	Intel® Platform Trust Technology (Intel® PTT), offering the capabilities of discrete TPM 2.0
<b>CONNECTIVITY</b>	
Interfaces Frontside	2 x USB 3.1 Gen2 1 x RJ45 10 / 100 / 1000 Mbps 1 x MiniDP++ 1.2 1 x Mini Jack Audio in/out
Interfaces backside	Internal Intel® SDM PCIe x8 interface, supporting USB3.1 x1, HDMI 2.0 x1, Display Port 1.2 x1, RS232 x1, 12V DC-In
<b>RESOLUTION</b>	
EDID/DDC support	Internal SDM interface up to 3840 x 2160 @ 60Hz External MiniDP++ interface up to 4096 x 2160 @ 60Hz
<b>ELECTRICAL</b>	
Power Consumption [W]	Idle: 7.5 Watt Max: 25 Watt
<b>ENVIRONMENTAL CONDITIONS</b>	
Operating Temperature [°C]	0-55
<b>MECHANICAL</b>	
Net Weight (kg)	1.0
Gross Weight (kg)	1.2
Size / Gross Dimensions (m)	0.175 x 0.100 x 0.020 / 0.325 x 0.245 x 0.075
<b>ADDITIONAL FEATURES</b>	
Compatibility	All NEC Large Format Displays accepting Intel® Smart Display Module Large
Cooling	Passive
Warranty	3 Years warranty, additional services available
<b>AVAILABLE OPTIONS</b>	
External Adapter	100015613 SDM Standalone Adapter
For additional pictures and Solutions overview, visit <a href="http://www.sharpnecdisplays.eu">www.sharpnecdisplays.eu</a> for details.	

### Sharp NEC Display Solutions Europe GmbH

Landshuter Allee 12-14, D-80637 München  
infomail.sndse@sharp.eu  
Phone: +49 (0) 89 99 699-0  
Fax: +49 (0) 89 99 699-500  
[www.sharpnecdisplays.eu](http://www.sharpnecdisplays.eu)