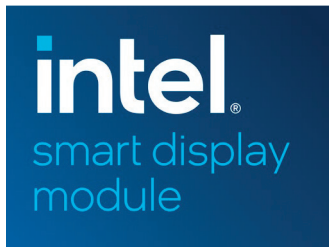


The Essential SDM module, optimised for signage applications.



The Essential SDM module is optimized 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 Large Format Displays** – combine the SDM Essential module with a Sharp 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** – utilize 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.

Specifications

| Model Name | Intel® Smart Display Module (Intel® SDM) |
|---|---|
| ORDER CODES | |
| SDM-EHL-ATO-D4/64/W10IoT B | 100015832 |
| PC CONFIGURATION | |
| CPU | Intel Elkhart Lake Atom® x6413E Processor 4x 1.5GHz |
| BIOS | AMI uEFI 256 Mbit |
| RAM | 4GB 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 |
| CONNECTIVITY | |
| 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 |
| RESOLUTION | |
| EDID/DDC support | Internal SDM interface up to 3840 x 2160 @ 60Hz External MiniDP++ interface up to 4096 x 2160 @ 60Hz |
| ELECTRICAL | |
| Power Consumption [W] | Idle: 7.5 Max: 25 |
| ENVIRONMENTAL CONDITIONS | |
| Operating Temperature [°C] | 0-55 |
| MECHANICAL | |
| Net Weight [kg] | 1.0 |
| Gross Weight [kg] | 1.2 |
| Size / Gross Dimensions [mm] | 175 x 100 x 20 / 325 x 245 x 75 |
| ADDITIONAL FEATURES | |
| Compatibility | All NEC Large Format Displays accepting Intel® Smart Display Module Large |
| Cooling | Passive |
| Warranty | 3 years warranty, additional services available |
| For additional pictures and Solutions overview, visit www.sharpnecdisplays.us for details. | |