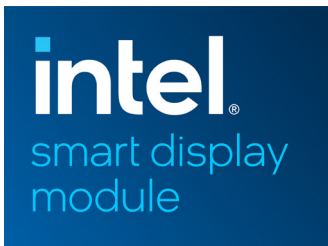**SHARP/NEC**

Order Code: 100015608

Intel® Smart Display Module (Intel® SDM) 8th Generation Intel Core i3 Processor

The Midrange Core i3 SDM

Configurable Intel® SDM Slot-In PC for all type of midrange signage applications

This Core i3 powered Intel® SDM Large Slot-in PC supports a wide variety of applications such as flight and passenger information, retail and corporate signage as well as interactive and kiosk applications.

Tailor-made solutions can be provided with a wide choice of, solid-state drives, RAM and operating systems.

Benefits

- **Versatile performance -** The Core™ i3-8100H processor with 8GB dual channel DDR4 RAM delivers fast data processing and is capable to run multiple operations and applications at the same time; powering the next generation of embedded computing.

- **Tailored for your needs -** customer specific configurations for RAM, SSD, operating system and pre-installed software.

- **High usage flexibility -** thanks to wide connectivity such as 4 x USB, MiniDP++, Gigabit Ethernet, Audio and optional WiFi; there's no need to add additional adapters or signal splitters.

- **Seamless and fully embedded -** The Intel® SDM form factor provides a compact and fully embedded solution ensuring that all connectors are integrated including Power, Video & Audio Signals and RS232.

- **100% compatibility and enhanced feature-set -** in combination with supported NEC large format displays.

- **Built for business -** The TPM chipset provides enhanced hardware security through integrated cryptographic keys.

- **High reliability -** Ideally suited for 24/7 operation due to the use of industrial grade components.

Technical Specifications

ORDER CODES	
SDM-CFH-i5-d16/256/W10Pro/TPM/W B	100015608
PC CONFIGURATION	
CPU	Intel® Core™ i3-8100H Processor 4x3GHz Base frequency
System Chipset	Intel QM370
BIOS	AMI uEFI 128 Mbit
RAM	8GB dual channel - configuration options: 4GB, 16GB, 32GB
Mass Storage	128GB M.2 SSD (SATA) - configuration options: 64GB, 256GB, 512GB, 1024GB
Graphics (board)	Intel® UHD Graphics 630 integrated Graphics controller, HW Codec: H.265/HEVC, VP8, VP9, MPEG2, JPEG, VC1/WMV9. Direct3D 2015/11.2/11.1/10/9 ; OpenGL5.0 ; OpenCL 2.0/1.2/1.0
Operating System	Windows 10 IoT Enterprise LTSC x64bit (pre-loaded), different configurations available on request (Build-to-order)
Hardware Management Tools	Trusted Platform Module (TPM 2.0)
CONNECTIVITY	
Interfaces Frontside	4 x USB 3.1 Gen2 RJ45 10 / 100 / 1000 Mbps 1 x MiniDP++ 1.2 1 x Mini Jack Audio in/out Optional WiFi: Intel® Wireless-AC 9260 Module 802.11ac Wifi + BT 5.1
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: 8 Watt Max: 67 Watt
ENVIRONMENTAL CONDITIONS	
Operating Temperature [°C]	0-55
MECHANICAL	
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
ADDITIONAL FEATURES	
Compatibility	All NEC Large Format Displays accepting Intel® Smart Display Module Large except ME431 and M431
Warranty	3 Years warranty, additional services available

For additional pictures and Solutions overview, visit www.sharpnecdisplays.eu for details.