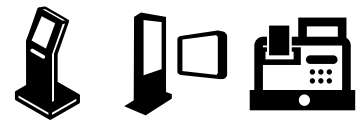
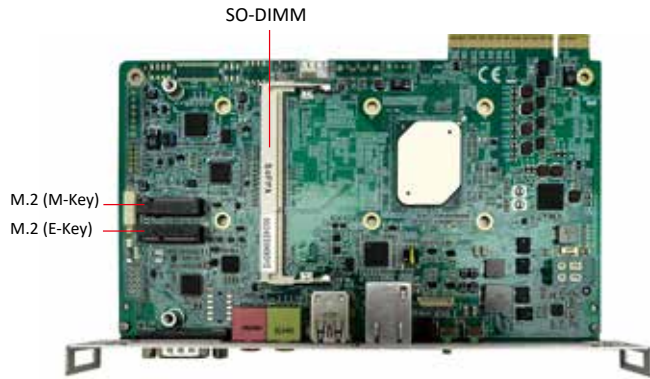


# ASDM-APL5

Intel® Atom® / Pentium® / Celeron® Series SoC based Smart Display Module Large Size (SDM-L) with COM, 2 USB, M.2 E-Key 2230/M.2 M-Key 2242, Intel® GbE LAN.



SDM Module



## Key Features

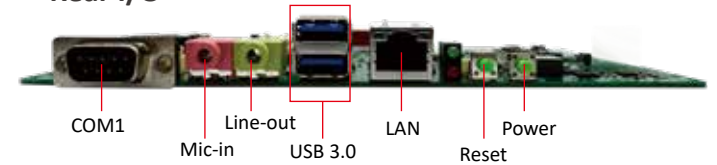
- Intel® Atom® / Pentium® / Celeron® (ApolloLake SoC) onboard processor
- One 204-pin SO-DIMM up to 8GB DDR3L 1866MT/s SDRAM
- One Intel® Gigabit Ethernet ports
- 1 M.2 E-Key 2230 (WiFi/BT), 1 M.2 M-Key 2242 (SSD) expansion slots
- 1 COM (RS-232/422/485), 2 USB 3.0 ports

## Product Specification

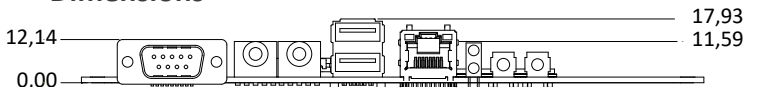
System Processor/Chipset	
Processor	Intel® Apollo Lake series SoC onboard Atom® x7-E3950 (1.6GHz/2.0GHz, QC, 18EU, 12W) Atom® x5-E3940 (1.6GHz/1.8GHz, QC, 12EU, 9.5W) Atom® x5-E3930 (1.3GHz/1.8GHz, DC, 12EU, 6.5W) Pentium® N4200 (1.1GHz/2.5GHz, QC, 18EU, 6W) Celeron® N3350 (1.1GHz/2.4GHz, DC, 12EU, 6W)
Chipset	Intel® Apollo Lake SoC integrated
BIOS	AMI UEFI SPI Flash ROM
Memory	
Technology	DDR3L up to 1866MHz SDRAM
Max. capacity	Up to 8GB
Socket	1 x 204-pin SO-DIMM
Display	
Graphics	Intel® HD Gen 9-LP Graphics
Display interface	DP / HDMI (Golden Finger)
Multi-display	HDMI + DP (Golden Finger)
Resolution	DP : Up to 4096 x 2160 @ 60Hz HDMI : Up to 3840 x 2160 @ 30Hz
Ethernet	
Interface	10/100/1000 Mbps
Controller	Intel® I211 GbE
Connector	1 x RJ45 (rear I/O)
Audio	
Interface	Line-out, MIC-in (rear I/O)
CODEC	Realtek ALC662 HD Audio Codec
Expansion Slot	
M.2	1 x M.2 E-Key 2230 (WiFi/BT) 1 x M.2 M-Key 2242 (SSD)
I/O	
Audio	MIC-in, Line-out (rear I/O)
USB	2 x USB 3.0 (rear I/O)
COM	1 x RS-232/422/485 (rear I/O)
SDM Features (Golden Finger)	
Display	HDMI , DP
I/O	USB 3.0, USB 2.0, PCIe x1, UART, I2C
Power Requirement	
Power connector	N/A
Power type	N/A
Power mode	N/A
Watchdog Timer	
Interval	Programmable 1~255 sec/min
Output	System reset

Environment	
Operating temperature	0°C ~ 60°C (32°F ~ 140°F) standard -20°C ~ 70°C (-4°F ~ 158°F) optional -40°C ~ 70°C (-40°F ~ 158°F) optional
Storage temperature	-40°C ~ 80°C (-40°F ~ 176°F)
Relative humidity	0% ~ 95% (non-condensing)
Form Factor	
Dimensions (L x W)	Smart Display Module Board (SDM-L) 175 mm x 100 mm

## Rear I/O



## Dimensions



## Ordering Information

Part Number	Description
ASDM-APL5-3950 (MOQ)	SDM-L, Intel Atom x7-E3950 12W, COM/2USB/LAN, DC(12V)
ASDM-APL5-3940 (MOQ)	SDM-L, Intel Atom x5-E3940 9.5W, COM/2USB/LAN, DC(12V)
ASDM-APL5-3930 (MOQ)	SDM-L, Intel Atom x5-E3930 6.5W, COM/2USB/LAN, DC(12V)
ASDM-APL5-4200	SDM-L, Intel Pentium N4200 6W, COM/2USB/LAN, DC(12V)
ASDM-APL5-3350	SDM-L, Intel Celeron N3350 6W, COM/2USB/LAN, DC(12V)

## Optional Accessories

Part Number	Description
TBD	Heatsink
TBD	Heatsink with air cooling