

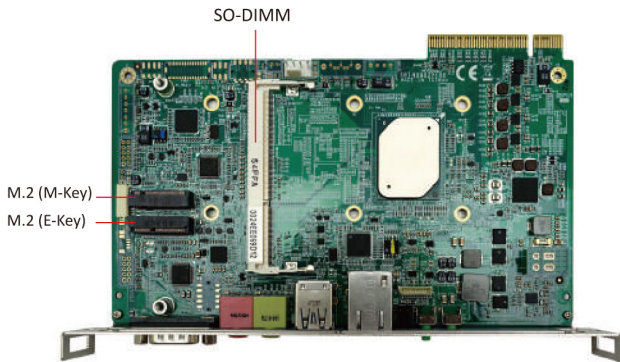
ASDM-APL5

Intel® Atom® E3900 Series SoC Smart Display Module Board with COM, 2 USB, One GbE LAN.



Intel® SDM

WiFi Support



Key Features

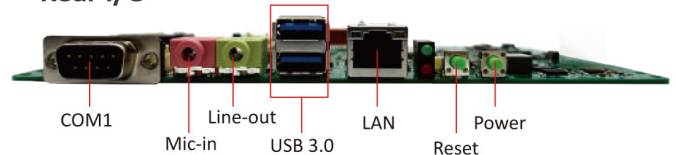
- Intel® Apollo Lake SoC on board
- One 204-pin SO-DIMM DDR3L up to 1866MT/s 8GB SDRAM
- One Intel® Gigabit Ethernet ports
- M.2 (M-Key 2242), M.2 (E-Key 2230) expansion slots
- COM, 2 USB 3.0
- EuP/ErP 2013 Ready

Product Specification

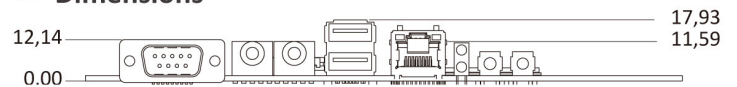
System Processor/Chipset	
Processor	Intel® Atom™ x7 E3950 1.60GHz / 2.00GHz (Base/Burst) Quad-Core SoC (12W) Intel® Atom™ x5-E3940 1.60GHz / 1.80GHz (Base/Burst) Quad-Core SoC (9.5W) Intel® Atom™ x5 E3930 1.30GHz / 1.80GHz (Base/Burst) Dual-Core SoC (6.5W) Intel® Atom™ N4200 1.10GHz / 2.50GHz (Base/Burst) QC 1.10GHZ (6W) Intel® Atom™ N3350 1.10GHz / 2.40GHz (Base/Burst) DC 1.10GHZ (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
Audio	
Interface	Line-in, Line-out, MIC-in (pin header)
CODEC	Realtek ALC662 HD
Expansion Slot	
M.2	1 (M-Key 2242), 1 (E-Key 2230)
I/O	
Audio	MIC-in, Line-out,
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 (-4°F ~ 176°F)
Relative humidity	0% ~ 95% (non-condensing)
Form Factor	
Dimensions (L x W)	Smart Display Module Board 175 mm x 100 mm

Rear I/O



Dimensions



Ordering Information

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

Accessories list

Part Number	Description
TBD	Heatsink
TBD	Heatsink with air cooling

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