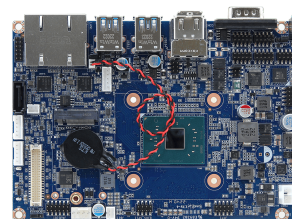


ECM-APL

Intel® Pentium®/Celeron®/Atom® SoC Processor
3.5" Micro Module



Specification

System Information	
Processor	Intel Atom® x7-E3950 Processor (2M Cache, up to 2.00 GHz) Intel Atom® x5-E3940 Processor (2M Cache, up to 1.80 GHz) Intel Atom® x5-E3930 Processor (2M Cache, up to 1.80 GHz) Intel® Pentium® Processor N4200 (2M Cache, up to 2.50 GHz) Intel® Celeron® Processor N3350 (2M Cache, up to 2.40 GHz) Intel® Celeron® Processor J3455 (2M Cache, up to 2.30 GHz)
System Memory	1 x 204-Pin DDR3L 1600&1333MHz SO-DIMM, supports up to 8GB (Non-ECC)
Platform Controller Hub	Apollo SoC integrated
I/O Chipset	EC(IT8528E), I-series CPU use EC (IT8528I) for WT
BIOS	AMI uEFI BIOS, 128Mbit SPI Flash ROM
Watchdog Timer	H/W Reset, 1sec. ~ 65535sec. and 1sec./step
H/W Status Monitor	Monitoring System Temperature, Voltage and FAN Status with Auto Throttling Control
Expansion	
Expansion	1 x Mini PCIe (for PCIe & USB2.0) 1 x M.2 (2242)B-Key
Storage	
Storage	1 x M.2 support SATA/USB interface & with Micro SIM card connector for SSD/3G/4G
Touch Screen	
Built-in Touch controller (optional)	EETI ETP-CP-MER4485XRU 1 x 5-pin 2.54mm Pin Header
I/O	
USB Port	1 x USB 2.0 4 x USB 3.0
COM Port	1 x RS-232/422/485 5 x RS-232
MIO	1 x LPC 1 x SPI
SATA	1 x SATA3
SIM Slot	1 x Micro SIM Card Slot
GPIO	1 x 8bit GPIO

Display	
Multiple Display	Triple Display
Graphic Chipset	Intel® Apollo Lake SoC integrated Gen9 LP Graphics
Spec. & Resolution	2 x HDMI: Max. Resolution 3840x2160 @ 30Hz 1 x LVDS: Max. Resolution 1920x1080 @ 60Hz
Audio	
Audio Codec	Realtek ALC888S supports 5.1-CH
Audio Interface	Mic-In, Line-In, Line-Out
Software Support	
OS	Win 10, Linux
Certifications	
Certification Information	CE,FCC Class B
Ethernet	
Ethernet Interface	10/100/1000 Base-Tx GbE compatible
LAN Chipset	2 x Intel® I210AT Intel I210IT for WT
LAN Port	2 x RJ-45
Power Requirement	
Power Mode	AT/ATX
Mechanical & Environmental	
Weight	0.44lbs (0.2kg)
Dimension (L x W)	5.7 x 4 (146mm x 101mm)
Storage Temperature	-40°C ~ 75°C (-40°F ~ 167°F)
Operating Humidity	40°C @ 95% Relative Humidity, Non-condensing
Operating Temperature	0°C ~ 60°C (32°F ~ 140°F)(J3455/N4200/N3350/E 3900 series) -40°C ~ 85°C (-40°F ~ 185°F)(E3900 Series)(Optional for Wide Temperature Model)
Power Requirement	Typical 12/24Vdc (+12V ~ +26V)

Ordering Information

Ordering Information	ECM-APL-N4200-C2R 3.5" W/N4200/5USB/6COM/2LAN/C2
	ECM-APL-N3350-C2R 3.5" W/N3350/5USB/6COM/2LAN/C2
	ECM-APL-J3455-C2R 3.5" W/J3455/5USB/6COM/2LAN/C2
	ECM-APL-E50-C1R(0--+60C) 3.5" W/E3950/5USB/6COM/2LAN/C1
	ECM-APL-E40-C1R(0--+60C) 3.5" W/E3940/5USB/6COM/2LAN/C1
	ECM-APL-E30-C1R(0--+60C) 3.5" W/E3930/5USB/6COM/2LAN/C1
	ECM-APL-E50W-C1R(Wide temp.-40--+85C) 3.5" W/E3950/5USB/6COM/2LAN/C1
	ECM-APL-E40W-C1R(Wide temp.-40--+85C) 3.5" W/E3940/5USB/6COM/2LAN/C1
	ECM-APL-E30W-C1R(Wide temp.-40--+85C) 3.5" W/E3930/5USB/6COM/2LAN/C1
