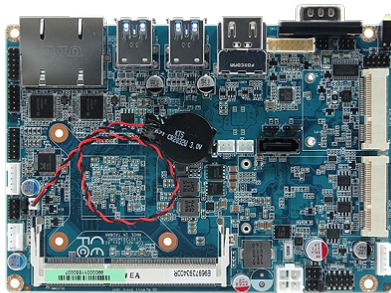




ECM-APL2-A

Intel® Apollo Lake 3.5" Micro Module



- > Bottom Layer Soldered
- > Intel® Pentium®/Celeron®/Atom™ BGA Processor
- > Intel® HD Graphics 500/505
- > Single DRAM Socket, Max. Up to 8GB DDR3 1866MHz
- > Triple Display (Dual HDMI, VGA)
- > Dual Expansion Slot, 2-mCPLe
- > Dual Gigabit Ethernet, HD Audio Code
- > 0~60C for N & J Series, -40~85C for E Series
- > TPM 2.0

+ Spec

System	
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 J3455E (2M Cache, up to 2.30 GHz)
System Memory	1 x 204-Pin SO-DIMM Socket, Max. Up to 8GB DDR3 1866MT/s
I/O Chip	EC IT8528E/ IT8528I
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 Full Size mPCle 1 x Half Size mPCle
Storage	
Storage	1 x mSATA (Shared mCPLe)
I/O	
USB	4 x USB 3.0 2 x USB 2.0
SATA	1 x SATA III
COM Port	2 x RS-232/422/485
DIO	1 x 8bit GPIO
MIO	1 x LPC 1 x SPI
Display	
Chipset	Intel® HD Graphics 500 (E3930, E3940, J3455, N3350) Intel® HD Graphics 505 (E3950, N4200)
Resolution	2 x HDMI 1.4: Max. Resolution 3840x2160 @ 30Hz 1 x VGA: Max. Resolution 1920x1200 @ 60Hz
Multiple Display	Triple Display
Audio	
Chipset	Realtek ALC892, supports 5.1-CH
Audio Interface	1 x Mic-In 1 x Line-In 1 x Line-Out
Ethernet	
Chipset	2 x Intel® I211AT/ I210IT
Ethernet Interface	10/100/1000 Base-Tx GbE compatible
LAN Port	2 x RJ45 with ACT/LINK and SPEED LEDs
Mechanical & Environmental	
Power Requirement	Typical 12/24Vdc (+12V ~ +26V)
Power Type	AT/ATX
Operating Temperature	0°C ~ 60°C (32°F ~ 140°F), with 0.2m/s air flow (J3455, N4200, N3350) -40°C ~ 70°C (-40°F ~ 158°F), with 0.2m/s air flow (E3950, E3940, E3930) -40°C ~ 85°C (-40°F ~ 185°F), with 0.5m/s air flow (E3950, E3940, E3930) *With Extended Temperature Peripherals
Storage Temperature	-40°C ~ 75°C (-40°F ~ 167°F)
Operating Humidity	40°C @ 95% Relative Humidity, Non-condensing



Dimension (L x W)	5.7" x 4" (146mm x 101mm)
Weight	0.44lbs (0.2kg)
Vibration Protection	With SSD: 5Gms, IEC 60068-2-64, Random, 10 ~ 500Hz, 30min/Axis, 3 Axis
Shock Protection	With SDD : 50G, IEC 60068-2-27, Half Sine, 11ms, Z Axis
Drop	ISTA 2A, IEC-60068-2-32 Test : Ed, 1 Corner, 3 Edges, 6 Faces
Certifications	
Certification Information	CE FCC Class B
Software Support	
OS Information	Win 10 Linux

Ordering

ECM-APL2-N4200-A2R
3.5" W/N4200/6USB/2COM/2LAN/A2

ECM-APL2-N3350-A2R
3.5" W/N3350/6USB/2COM/2LAN/A2

ECM-APL2-J3455-A2R
3.5" W/J3455/6USB/2COM/2LAN/A2

ACC-ECMAPL2-SD-2R
Heat spreader for ECM-APL2 N/J series