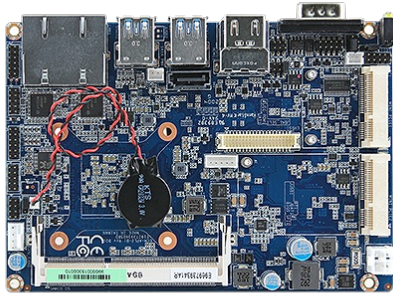




ECM-APL2-B

Intel® Pentium®/Celeron®/Atom™ SoC Processor
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 DDR3L 1866MHz
- > Triple Display: Dual HDMI, LVDS
- > Dual mPCIe Expansion Slot
- > Dual Gigabit Ethernet, HD Audio Code
- > 0~60°C for N & J Series, -40~85°C for E Series
- > TPM 2.0

+ Spec

System	
Processor	Intel® Pentium®/Celeron®/Atom™ BGA Processor
System Memory	1 x 204-Pin DDR3L 1866MTs SO-DIMM up to 8GB
I/O Chip	EC (IT8528VG)
BIOS	AMI uEFI BIOS, 128Mbit SPI Flash ROM
Expansion	
Expansion	1 x Full size Mini PCIe Supports mSATA 1 x Half size Mini PCIe
Storage	
Storage	1 x mSATA support from Mini PCIe
I/O	
USB	4 x USB 3.1 (Gen1 5Gbps) 2 x USB 2.0
SATA	1 x SATA III
COM Port	1 x RS-232 1 x RS232 (Default)(JCOM2) or 1 x RS422/485 by GPIO (J422_485)
DIO	1 x 8bit GPIO
MIO	1 x LPC 1 x SPI
Other	1 x LVDS 2 x LAN
Display	
Chipset	Intel® Apollo Lake SoC Processor integrated Gen9 LP graphics
Resolution	HDMI: Max. Resolution 3840 x 2160 @ 30Hz LVDS: Max. Resolution 1920 x 1080 @ 60Hz 2 x HDMI (1.4b)
LVDS	1 x LVDS
Multiple Display	Triple Display: Dual HDMI, LVDS
Audio	
Chipset	Realtek ALC892, supports 5.1-CH
Audio Interface	1 x Mic-In 1 x Line-In 1 x Line-Out
Ethernet	
Chipset	1 x Intel® I211AT 1 x Intel® I210IT
Ethernet Interface	10/100/1000 Base-Tx GbE compatible
LAN Port	2 x RJ-45
Mechanical & Environmental	
Power Requirement	+12V ~ +26V
ACPI	Single Power ATX Support S0, S3, S4, S5 ACPI 5.0 Compliant
Power Type	AT/ATX
Operating Temperature	0°C ~ 60°C (32°F ~ 140°F) for N & J series -40°C ~ 85°C (-40°F ~ 185°F) for E-series CPU (Optional)
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	0.041lbs (0.03kg)



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-J3455-B1R
3.5" W/F1 J3455/6USB/2COM/2LAN/LVDS/B1

ECM-APL2-N4200-B1R
ECM-APL2/F1 N4200/6USB/LVDS/2COM/B1

ECM-APL2-N3350-B1R
ECM-APL2/F1 N3350/6USB/LVDS/2COM/B1

ECM-APL2-E50-B1R(Wide Temp. -40~85C)
ECM-APL2/F1 E3950/WT/6USB/LVDS/2COM/B1

ECM-APL2-E40-B1R(Wide Temp. -40~85C)
ECM-APL2/F1 E3940/WT/6USB/LVDS/2COM/B1

ECM-APL2-E30-B1R(Wide Temp. -40~85C)
ECM-APL2/F1 E3930/WT/6USB/LVDS/2COM/B1

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