



ECM-APL2

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

- > Onboard Intel® Pentium®/Celeron® SoC BGA Processor (with CPU Bottom Mounted)
- > 1x 204pin DDR3L SO-DIMM up to 8G
- > Triple Display (Dual HDMI, VGA)
- > 1 x SATA III, 4 x USB3.0 ,2 xUSB2.0, 2 COMs ,2x Mini-PCle, 8-bit GPIO
- > TPM 2.0
- > Support Wide temp. -40~+85 degrees (Optional)

+ Spec

System	
Processor	Intel® Pentium®/Celeron® /Atom™ SoC BGA Processor (with CPU Bottom Mounted)
System Chipset	Apollo SoC integrated
System Memory	1x204-Pin DDR3L 1866MHz SO-DIMM,supports 4G/8G & Up to 8GB DDR3L 1866MTs SDRAM (Non-ECC)
I/O Chip	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	2 x Mini PCIe (1 x Full-size Mini PCIe with mSATA Supported, 1 x Half-size Mini PCIe)
Storage	
Storage	1 x mSATA Supported from Mini PCIe
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® Apollo Lake SoC integrated Gen9 LP Graphics Supports triple display
Resolution	HDMI: Max. resolution 3840x2160 @ 30Hz VGA: Max. resolution 1920x1200 @ 60Hz Dual HDMI + VGA VGA (by pin header)
Audio	
Chipset	Realtek ALC892 supports 5.1-CH
Audio Interface	Mic-In, Line-In, Line-Out
Ethernet	
Chipset	2 x Intel® I211AT Intel I210IT for WT
Ethernet Interface	10/100/1000 Base-Tx GbE compatible
LAN Port	2 x RJ-45
Mechanical & Environmental	
Power Requirement	+12V ~ +26V
Power Type	AT/ATX
Operating Temp	0°C ~ 60°C (32°F ~ 140°F)(N4200/N3350) -40°C ~ 85°C (-40°F ~ 185°F)(E3900 Series) (Optional for Wide Temperature Model)
Storage Temp	-40°C ~ 75°C (-40°F ~ 167°F)
Operating Humidity	0% ~ 90% Relative Humidity, Non-condensing
Dimension (L x W)	5.7" x 4" (146mm x 101mm)
Weight	0.44lbs (0.2kg)
Certifications	
Certification Information	CE FCC Class B
Software Support	

www.avalue.com.tw



OS Information

Win 10
Linux

Ordering

ECM-APL2-N4200-A1R
3.5" W/N4200/6USB/2COM/2LAN/A1

ECM-APL2-N3350-A1R
3.5" W/N3350/6USB/2COM/2LAN/A1

Assured Systems

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