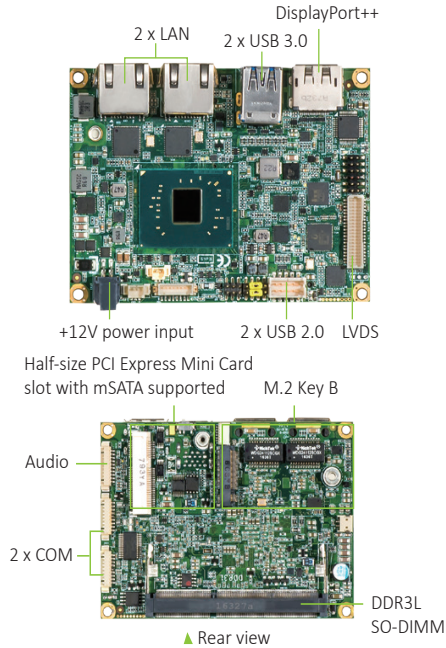


# PICO318

Pico-ITX SBC with Intel® Pentium® Processor N4200/Celeron® Processor N3350 and J3455, DisplayPort++, LVDS, 2 GbE LAN and Audio



## Features

- Intel® Pentium® processor N4200/Celeron® processor N3350 and J3455
- 1 DDR3L SO-DIMM for up to 8GB of memory
- 1 PCI Express Mini Card slot with mSATA supported
- 2 GbE LAN
- M.2 Key B



▲ Assembly view



▲ APC203

## Specifications

### Core System

CPU	Intel® Pentium® processor N4200 & Celeron® processor N3350 and J3455 onboard
System Memory	1 x 204-pin DDR3L-1867 SO-DIMM, up to 8GB
Chipset	SoC integrated
BIOS	AMI
SSD	1 x M.2 Key B (SATA, USB 2.0, USB 3.0, PCIe x2 optional) in 22 x 42 or 30 x 42 1 x mSATA (Optional)
Watchdog Timer	65536 levels, 0 to 65535 sec.
Expansion Interface	1 x Half-size PCI Express Mini Card slot
Battery Lithium	Lithium 3V/220 mAh
Power Input	2 x 2-pin connector +12V DC-in only AT Auto Power On function supported
Power Requirements	Pentium® N4200 @ 1.1 GHz, min. RMS: +12V @1.3A Celeron® N3350 @ 1.1 GHz, min. RMS: +12V @1.1A Celeron® J3455 @1.5 GHz, min. RMS: +12V @1.8A

### Display

Chipset	Intel® integrated Gfx graphic engine
Memory Size	Share system memory
Display Interface	1 x DisplayPort++ 1 x LVDS; 18/24-bit single/dual channel

### I/O

SATA	N/A
Hardware Monitoring	Detect CPU/system temperature and voltage
Ethernet	2 x 10/100/1000 Mbps Ethernet with Intel® I210-AT; support Wake-on-LAN, PXE Boot ROM
Audio	HD Codec audio as Mic-in/Line-in/Line-out with Realtek ALC888S
USB	2 x USB 2.0 2 x USB 3.0
Serial	1 x RS-232/422/485 1 x RS-232
TPM	N/A
SMBus	Yes; compatible with I <sup>2</sup> C
Digital I/O	4-channel in/out programmable

**Mechanical and Environmental**

Dimensions	100 x 72 mm
Board Thickness	1.6 mm
Operating Temperature	-20°C to +60°C (-4°F to +140°F)
Humidity	10% to 95% relative humidity, non-condensing

**Packing List**

**Accessories**

594H3160400E	Power cable, L=100 mm
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**APC203, Industrial Chassis**

SBC Option	PICO318PGGA-N3350 (P/N: E38H318102)
I/O	2 x GbE LAN 2 x USB 3.0 1 x DisplayPort++ 1 x 12V DC Jack
Dimensions (with wall mount ear)	152.5 mm (6") (W) x 107.5 mm (4.23") (D) x 37.5mm (1.48") (H)
Operating Temperature	-10°C to +50°C (+14°F to +122°F)
APC203 (P/N: E27P203100)	APC203 w/N3350, 8GB RAM, 64GB M.2 Key B card and 12V/60W adapter

**Ordering Information**

**Standard**

PICO318PGGA-N4200 (P/N: E38H318101)	Pico-ITX SBC with Intel® Pentium® processor N4200 (1.1- 2.5 GHz, 2MB cache, 6W), DisplayPort++, LVDS, 2 GbE LAN, 2 USB 2.0, and 2 USB 3.0 (without heatsink)
PICO318PGGA-N3350 (P/N: E38H318100)	Pico-ITX SBC with Intel® Celeron® processor N3350 (1.1- 2.4 GHz, 2MB cache, 6W), DisplayPort++, LVDS, 2 GbE LAN, 2 USB 2.0, and 2 USB 3.0 (without heatsink)
PICO318PGGA-J3455 (P/N: E38H318105)	Pico-ITX SBC with Intel® Celeron® processor J3455 (1.5- 2.3 GHz, 2MB cache, 10W), DisplayPort++, LVDS, 2 GbE LAN, 2 USB 2.0 and 2 USB 3.0 (without heatsink)

**Optional**

PICO318PGGA-N3350 60°C (P/N: E38H318102)	Pico-ITX SBC with Intel® Celeron® processor N3350 (1.1- 2.4 GHz, 2MB cache, 6W), DisplayPort++, LVDS, 2 GbE LAN, 2 USB 2.0, 2 USB 3.0, and heatsink
PICO318PGGA-N4200 60°C (P/N:E38H318103)	Pico-ITX SBC with Intel® Pentium® processor N4200 (1.1- 2.5 GHz, 2MB cache, 6W), DisplayPort++, LVDS, 2 GbE LAN, 2 USB 2.0, 2 USB 3.0, and heatsink
PICO318PGGA-J3455 60°C (P/N: E38H318106)	Pico-ITX SBC with Intel® Celeron® processor J3455 (1.5- 2.3 GHz, 2MB cache, 10W), DisplayPort++, LVDS, 2 GbE LAN, 2 USB 2.0, 2 USB 3.0, and heatsink
7128H316000E	Heatspreader
594H3180400E	DC power cable for adapter, L=180 mm
50966124050E	Adapter 12V 60W FSP060-DHAN3 with screw
59312260020E	Audio cable with bracket, P=1.25 mm, L=450 mm
59380880250E	COM port cable DB9-9 x 1-pin, P=1.25 mm, L=250 mm
594E8422800E	2 x USB 2.0 cable with bracket, L=180 mm
594H3186800E	Buzzer cable 9 x 5.5 mm 2-pin, L=40mm
E393A19100	AX93A19 SIM card slot board

## Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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