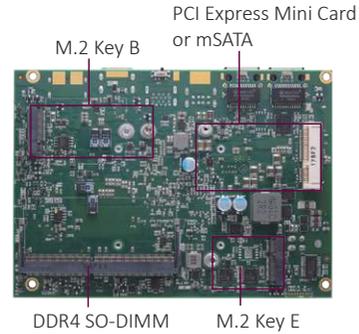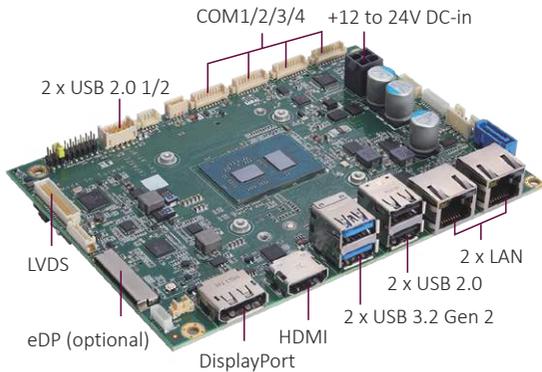# CAPA322

3.5" Embedded SBC with Intel® Celeron® Processor N6210/J6412 or Intel Atom® x6413E Processor, HDMI, LVDS, DisplayPort, Optional eDP, and Dual 2.5GbE LAN

2 x USB 2.0 1/2
COM1/2/3/4
+12 to 24V DC-in
LVDS
eDP (optional)
DisplayPort
HDMI
2 x USB 3.2 Gen 2
2 x USB 2.0
2 x LAN

M.2 Key B
PCI Express Mini Card or mSATA
DDR4 SO-DIMM
M.2 Key E

▲ Rear view

▲ Top view

| Fanless | Wide Temp. | All Solid Caps | Triple-View | M.2 | DDR4 | PCIe Mini | 12 to 24 VDC |

Features

- Intel® Celeron® processor N6210/J6412 or Intel Atom® x6413E processor
- 1 DDR4 SO-DIMM for up to 32GB
- 4 USB 2.0 and 2 USB 3.2 Gen 2
- 1 PCI Express Mini Card or mSATA
- 1 M.2 Key E and 1 M.2 Key B

Specifications

Core System

CPU	Intel® Celeron® processor N6210/J6412 or Intel Atom® x6413E processor onboard
System Memory	1 x 260-pin DDR4-3200 SO-DIMM, up to 32GB
Chipset	SoC integrated
BIOS	AMI
SSD	1 x mSATA (refer to ordering information, A SKU) 1 x M.2 Key B 2242 (PCIe x 2, USB 2.0) (refer to ordering information, B SKU)
Watchdog Timer	65536 levels, 1 to 65535 sec.
Expansion Interface	1 x full-size PCI Express Mini Card (refer to ordering information, B SKU) 1 x M.2 Key E 2230 (PCIe x 1, USB 2.0) 1 x M.2 Key B 3042/3050 (PCIe x 1, USB 3.2 Gen 1, USB 2.0) (refer to ordering information, A SKU)
Battery Lithium	Lithium 3V/220mAH
Power Input	2 x 2-pin connector +12V to 24V DC-in AT Auto Power On function supported

Specifications

Display

Chipset	Intel® integrated UHD graphics
Memory Size	Share system memory
Display Interface	1 x HDMI 1 x DisplayPort 1 x LVDS 1 x eDP (optional)

I/O

SATA	1 x SATA-600
Hardware Monitoring	Detect CPU/system temperature and voltage
Ethernet	2 x 10/100/1000/2500 Mbps Ethernet with Intel® I226-V supports Wake-on-LAN, PXE Boot ROM
Audio	HD Audio link via pin header
USB	4 x USB 2.0 2 x USB 3.2 Gen 2
Serial	2 x RS-232/422/485 2 x RS-232
TPM	TPM 2.0
SMBus	Yes, compatible with I^2C
Digital I/O	8-channel in/out programmed

Mechanical and Environmental

Dimensions	146 x 104 mm
Board Thickness	1.6 mm
Operating Temperature	-20°C to +70°C (-4°F to +158°F) for Intel® Celeron® processor -40°C to +80°C (-40°F to +176°F) for Intel Atom® x6413E processor
Relative Humidity	10% to 95% relative humidity, non-condensing

Ordering Information

Standard

CAPA322-J6412-A (P/N: E38E322101)	3.5" Embedded SBC with Intel® Celeron® processor J6412 (2.0-2.6 GHz, 10W), HDMI/LVDS/DisplayPort, 2.5GbE LAN, mSATA and heatsink
CAPA322-N6210-A (P/N: E38E322100)	3.5" Embedded SBC with Intel® Celeron® processor N6210 (1.2-2.6 GHz, 6.5W), HDMI/LVDS/DisplayPort, 2.5GbE LAN, mSATA and heatsink
CAPA322-x6413E-A (E38E322102)	3.5" Embedded SBC with Intel Atom® x6413E processor (1.5-3.0 GHz, 9W), HDMI/LVDS/DisplayPort, 2.5GbE LAN, mSATA and heatsink
CAPA322-N6210-B (P/N: E38E322103)	3.5" Embedded SBC with Intel® Celeron® processor N6210 (1.2-2.6 GHz, 6.5W), HDMI/LVDS/DisplayPort, 2.5GbE LAN, NvMe M.2 Key B, and heatsink
CAPA322-J6412-B (P/N: E38E322104)	3.5" Embedded SBC with Intel® Celeron® processor J6412 (2.0-2.6 GHz, 10W), HDMI/LVDS/DisplayPort, 2.5GbE LAN, NvMe M.2 Key B, and heatsink
CAPA322-x6413E-B (P/N: E38E322105)	3.5" Embedded SBC with Intel Atom® x6413E processor (1.5-3.0 GHz, 9W), HDMI/LVDS/DisplayPort, 2.5GbE LAN, NvMe M.2 Key B, and heatsink

Optional

AX93A19 (P/N: E393A19100)	SIM card slot board
AX93A22 (P/N: E393A22100)	HD codec audio board for Mic-in/Line-in/Line-out
594E8422800E	2 USB 2.0 wafer cables with bracket, 180 mm
59380880250E	COM port cable DB-9 x 1P, P=1.25 mm, L=250 mm
594H3186800E	Buzzer cable 9 x 5.5 mm 2-pin, L=40 mm