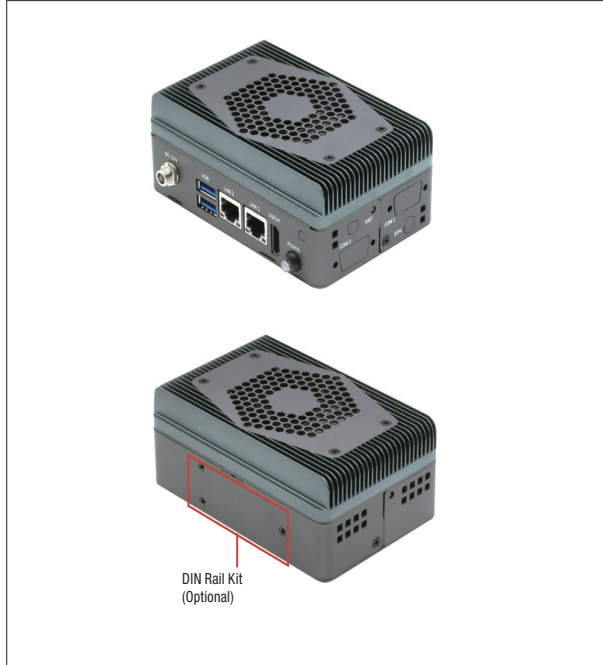


PICO-APL4-SEMI

PICO-SEMI TurnKit with Intel® Pentium® N4200/ Celeron® N3350 Processor SoC

PICO-SEMI



DIN Rail Kit (Optional)

Specifications

SYSTEM	
FORM FACTOR	PICO-SEMI
CPU	Intel® Celeron®/Pentium® Processor: Pentium N4200 (4C/4T, 1.10GHz, up to 2.50GHz, TDP 6W) Celeron N3350 (2C/2T, 1.10GHz, up to 2.40GHz, TDP 6W)
CHIPSET	Integrated with Intel® SoC
MEMORY TYPE	Onboard DDR3L up to 4GB
BIOS	UEFI
WAKE ON LAN	Yes
WATCHDOG TIMER	255 Levels
SECURITY	—
RTC Battery	Lithium Battery 3V/240mAh
DIMENSION	4.80" x 3.15" x 1.97" (122 mm x 72 mm x 50 mm)
Gross Weight	0.88 lb (0.4 kg)
OS Support	Windows 10 (64 bit)
POWER	
POWER REQUIREMENT	+12V
POWER SUPPLY TYPE	ATX
CONNECTOR	DC Jack Connector
POWER CONSUMPTION	Intel® N4200 processor, DDR3L 4GB, 1.43A@12V
DISPLAY	
CONTROLLER	Intel® HD Graphics 500/505
LVDS/eDP	—
Display Interface	HDMI 1.4b x 1 (up to 3840 x 2160@30Hz)
Multiple Display	1 Simultaneous Display
AUDIO	
CODEC	—
AUDIO INTERFACE	—
Speaker	—
EXTERNAL I/O	
ETHERNET	Realtek 8111 Gigabit Ethernet 10/100/1000Base, RJ-45 x 2
USB	USB 3.2 Gen 1 x 2
SERIAL PORT	—
VIDEO	HDMI 1.4b x 1 (up to 3840 x 2160@30Hz)
INTERNAL I/O	
USB	—
SERIAL PORT	COM1: RS-232 x 1 (Optional) COM2: RS-232/422/485 x 1 (Ring/ +5V/ +12V) (Optional)
VIDEO	—

Features

- Extreme light system, easy to adopt everywhere
- Onboard DDR3L 2GB/4G
- Onboard Storage eMMC 32GB
- GbE x 2, HDMI x 1.4
- M.2 2280 B key for storage
- M.2 2230 E key for wireless Module
- COM x 2 (Optional)
- USB 3.2 Gen 1 x 2 (Rear IO), USB2.0 x 1 (Optional)
- Lockable DC 12V



SATA	SATA III x 1 +5V SATA Power Connector x 1 eMMC 32GB (Optional to 16GB/64GB/128GB)
AUDIO	—
DIO/GPIO	4-bit (Optional)
SMBus/I2C	I2C/SMBus x 1 (I2C as default) (Optional)
Touch	—
FAN	—
SIM	—
Front Panel	HDD LED, PWR LED, Power Button, Buzzer, Reset
Others	—
EXPANSION	
Mini PCI-E/mSATA	—
M.2	M.2 B-Key 2280 x 1 (SATA/USB) M.2 E-Key 2230 x 1 (PCIe/USB)
Others	—
ENVIRONMENT & CERTIFICATION	
OPERATING TEMP	32°F ~ 122°F (0°C ~ 50°C) with 0.5 m/s airflow
STORAGE TEMP	-40°F ~ 185°F (-40°C ~ 85°C)
OPERATING HUMIDITY	0% ~ 90% relative humidity, non-condensing
MTBF (HOURS)	191,895
EMC	CE/FCC Class A

Packing List

- PICO-APL4-SEMI

Optional Accessories

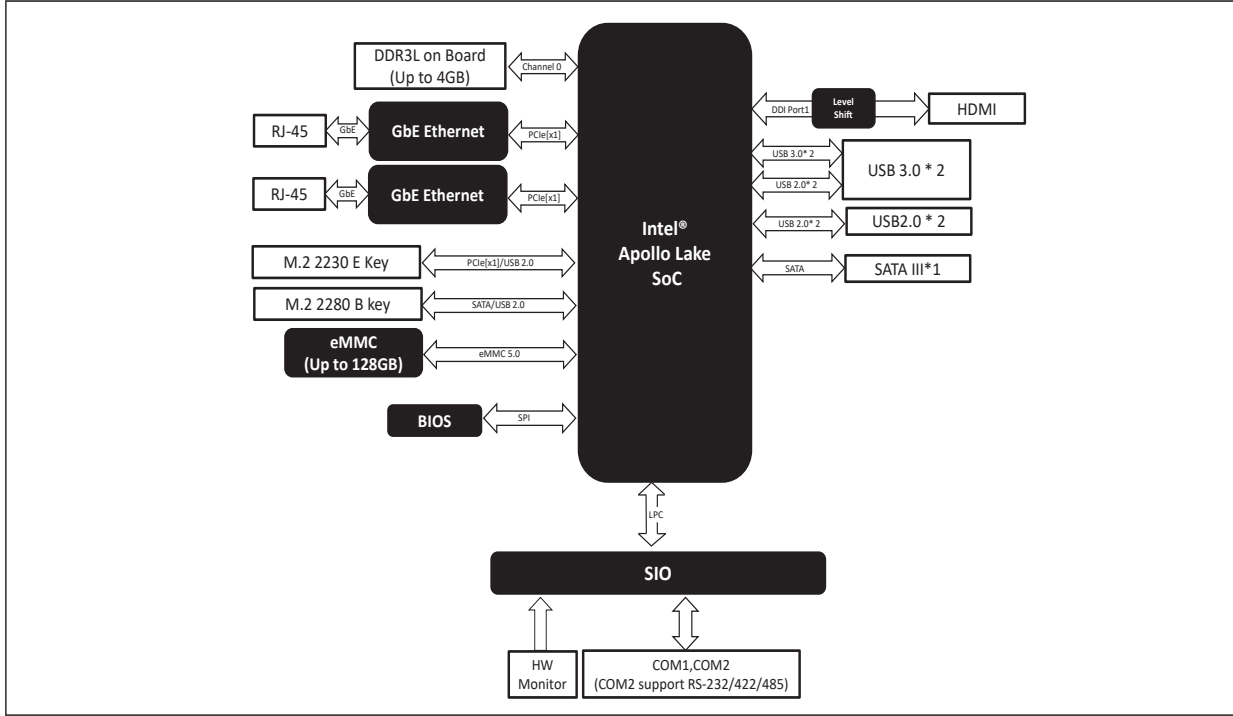
Part Number	Description	Qty.
125530040C	Power Adapter.12V.40W.FSP.FSP040-DHAN3	1
125530060Z	Power Adapter 12V/5A 60W FSP060-DHAN3	1
1702031802	Power Cord (US Type)	1
1702031803	Power Cord (European Type)	1
170203180E	Power Cord (Japan Type)	1
1701090122	COM Port Cable	2
9761SEMI01	Din Rail Kit	1
9761SEMI00	Wall mount Kit	1

PICO-APL4-SEMI

03

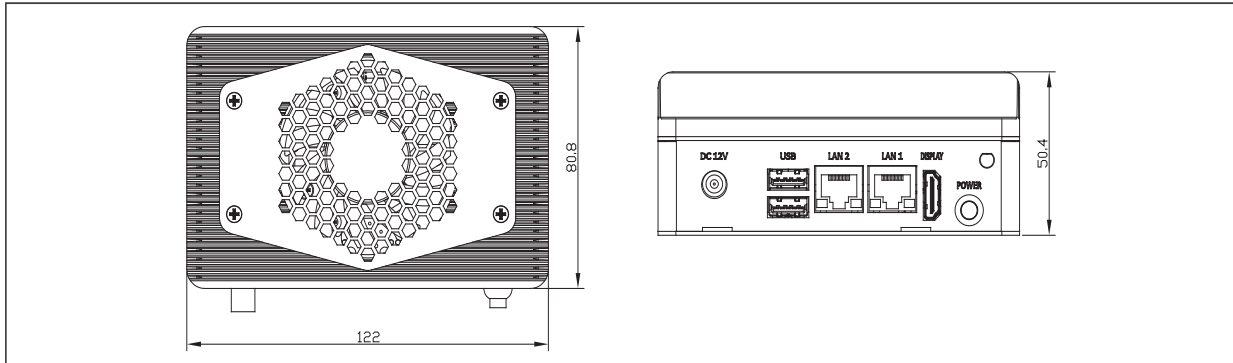
PICO-SEMI

Block Diagram



Dimension

Unit: mm



Ordering Information

Part number	CPU	Memory	Thermal	Display	Storage	LAN	USB	Expansion slot	Power	Operating Temp	Others
PICO-APL4-SEMI-A10-FS01	N3350	Onboard DDR3L 2GB	W/Cooler	HDMI x 1	SATAIII x 1 eMMC 32GB	GbE x 2	USB3.2 Gen 1 x 2	M.2 2280 B-key x 1 M.2 2230 E-key x 1	+12V (ATX)	0~50°C	I2C x 1
PICO-APL4-SEMI-A10-FS03	N4200	Onboard DDR3L 4GB	W/Cooler	HDMI x 1	SATAIII x 1 eMMC 32GB	GbE x 2	USB3.2 Gen 1 x 2	M.2 2280 B-key x 1 M.2 2230 E-key x 1	+12V (ATX)	0~50°C	I2C x 1

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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