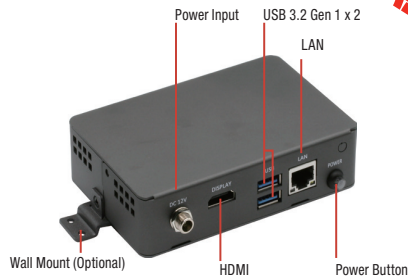


PICO-APL3-SEMI

PICO-SEMI Embedded Barebone Kit with Intel® Celeron/Pentium Processor SoC

PICO-SEMI

Front View



With Heat Sink



Features

- 180g Extreme Light System, Easy To Adapter Everywhere
- Gigabit Ethernet for Networking Connection
- USB 3.2 Gen 1 Connectivity
- HDMI
- M.2 2280 (B) M.2 2230 (E) Slot for WiFi/3G/4G Bluetooth Module
- Fix Holes for Antenna, Wallmount, DIN-Rail Kit Optional
- Lockable 12V DC Input



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	W/O heat sink: 4.8" x 3.15" x 1.18" (122 x 80 x 30 mm) W/ heat sink: 4.8" x 3.15" x 1.73" (122 x 80 x 44 mm)
Gross Weight	W/O heat sink: 0.38 lb (0.17 kg) W/ heat sink: 0.91 lb (0.41 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, eMMC 32GB, 1.1A@+12V(TYPICAL)
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	Realtek ALC269 (Optional)
AUDIO INTERFACE	Line-out (Optional)
Speaker	Amplifier Header (Optional)
EXTERNAL I/O	
ETHERNET	Realtek 8111 Gigabit Ethernet 10/100/1000Base, RJ-45 x 1
USB	USB 3.2 Gen 1 x 2
SERIAL PORT	COM1, COM2 (RS232) (Optional)
VIDEO	HDMI 1.4b x 1 (up to 3840 x 2160@30Hz)
INTERNAL I/O	
USB	—

SERIAL PORT	—
VIDEO	—
SATA	SATA III x 1 +5V SATA Power Connector x 1 eMMC 32GB
AUDIO	—
DIO/GPIO	4-bit (Optional)
SMBus/I2C	I2C/I2S 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)	110,000
EMC	CE/FCC Class A

Packing List

- PICO-APL3-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
1703100084	Audio Line-out	1
9761SEMI00	Wallmount Kit	1
9761SEMI01	DIN-Rail Kit	1

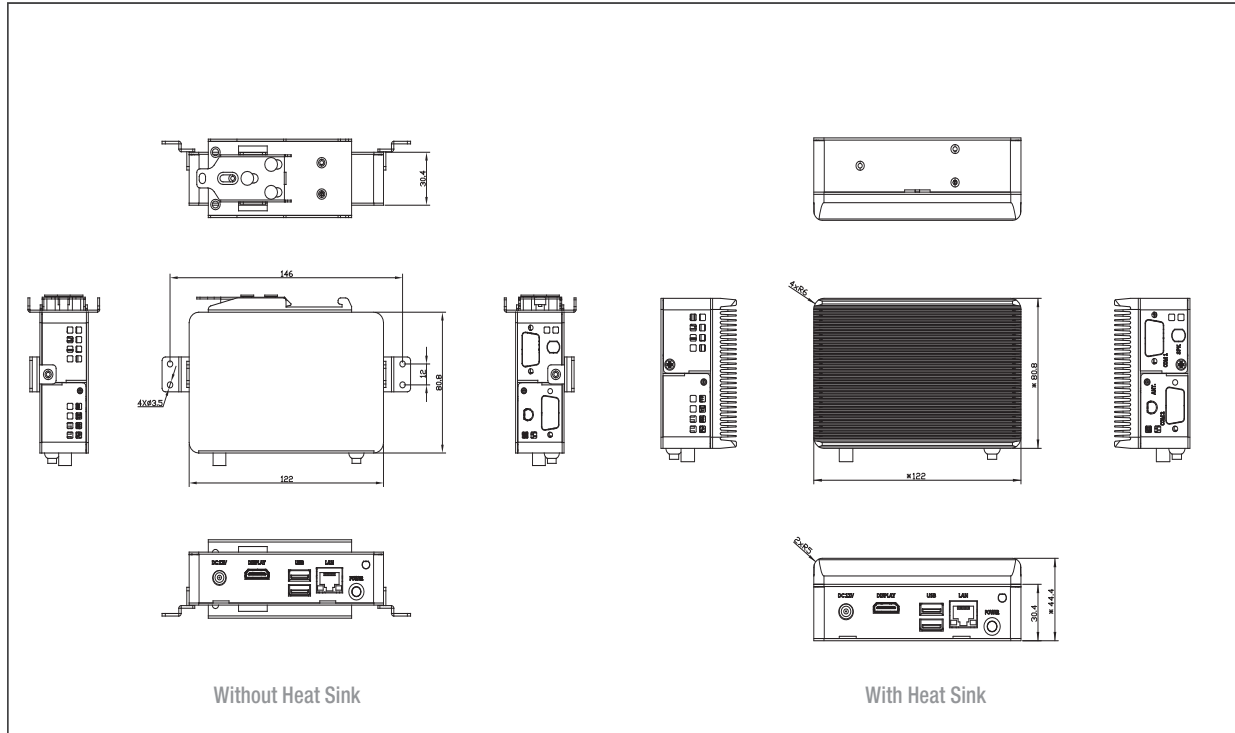
PICO-APL3-SEMI

03

PICO-SEMI

Dimension

Unit: mm



Installation Scenario

DIN-Rail Mount Illustration



Wall Mount Illustration



DIN Rail and Wall Mount Kit are optional parts.

Ordering Information

Part number	CPU	Memory	Thermal	Display	Storage	LAN	USB	Expansion slot	Power	Operating Temp	Others
PICO-APL3-SEMI-A10-FS01	N3350	Onboard DDR3L 2GB	W/ heat sink	HDMI x 1	SATAIII x 1 eMMC 32GB	GbE x 1	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-APL3-SEMI-A10-FS02	N3350	Onboard DDR3L 4GB	W/ heat sink	HDMI x 1	SATAIII x 1 eMMC 32GB	GbE x 1	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-APL3-SEMI-A10-FS03	N4200	Onboard DDR3L 4GB	W/ heat sink	HDMI x 1	SATAIII x 1 eMMC 32GB	GbE x 1	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-APL3-SEMI-A10-FS04	N3350	Onboard DDR3L 2GB	W/O heat sink	HDMI x 1	SATAIII x 1 eMMC 32GB	GbE x 1	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-APL3-SEMI-A10-FS05	N3350	Onboard DDR3L 4GB	W/O heat sink	HDMI x 1	SATAIII x 1 eMMC 32GB	GbE x 1	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-APL3-SEMI-A10-FS06	N4200	Onboard DDR3L 4GB	W/O heat sink	HDMI x 1	SATAIII x 1 eMMC 32GB	GbE x 1	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

Note: All specifications are subject to change without notice.

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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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