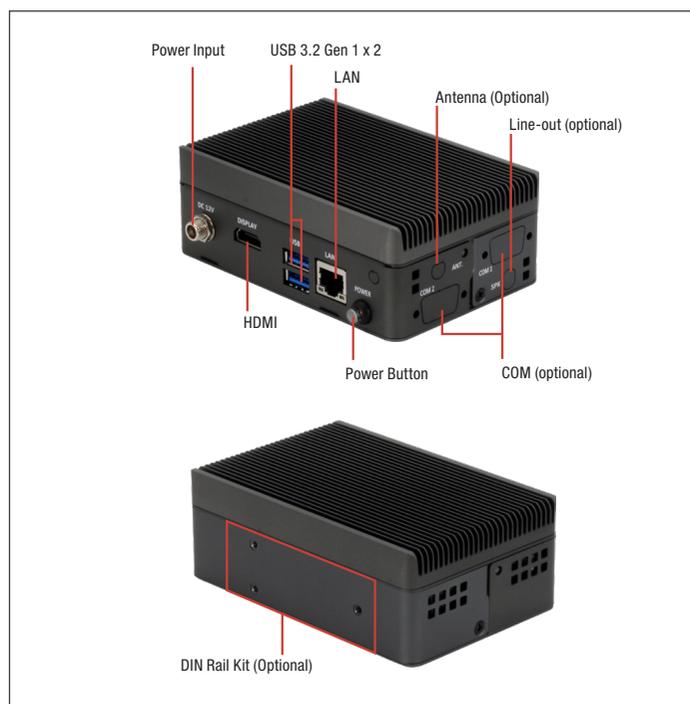


# PICO-APL1-SEMI

PICO-SEMI Embedded Barebone Kit with Intel® Atom® Processor SoC



## Features

- 270g Extreme Light System, Easy To Adapter Everywhere
- Gigabit Ethernet for Networking Connection
- USB 3.2 Gen 1 Connectivity
- HDMI
- mSATA and miniCard Slot for WiFi/3G/4G Bluetooth Module
- Fix Holes for Antenna, Wallmount, DIN-Rail Kit Optional
- Lockable 12V DC Input



VIDEO	—
SATA	—
AUDIO	Line-out (Optional)
DIO/GPIO	—
SMBus/I2C	—
FAN	—
Front Panel	HDD LED, PWR LED, Power Button, Buzzer, Reset
Others	—
<b>EXPANSION</b>	
Mini PCI-E/mSATA	Full-Size mSATA/mPCIe x 1 (Default: mSATA, select with HW BOM) Half-Sized mPCIe x 1
M.2	—
Others	—
<b>ENVIRONMENT &amp; CERTIFICATION</b>	
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)	170,000
EMC	CE/FCC Class A

## Specifications

SYSTEM	
FORM FACTOR	PICO-SEMI
CPU	Intel® Celeron® Processor: N3350 (2C/2T, 1.10GHz, 6W)
CHIPSET	Integrated with Intel® SoC
MEMORY TYPE	DDR3L 1866, Single Channel SODIMM x 1, Non-ECC (Max.8GB, up to 1600MHz)
BIOS	UEFI
WAKE ON LAN	Yes
WATCHDOG TIMER	255 Levels
SECURITY	—
RTC Battery	Lithium Battery 3V/240mAh
DIMENSION	4.8" x 3.18" x 1.75" (122mm x 80.8mm x 44.4 mm)
Gross Weight	0.59 lb (0.27 kg)
OS Support	Windows 10 (64 bit) Linux Ubuntu 20.04.4/ Kernel 5.11.0-13-generic
POWER	
POWER REQUIREMENT	+12V
POWER SUPPLY TYPE	ATX
CONNECTOR	Lockable DC Jack Connector
POWER CONSUMPTION	Intel® N3350 Processor, DDR3L 8GB x 1, 0.91A@+12V(TYPICAL)
DISPLAY	
CONTROLLER	Intel® HD Graphics 500
LVDS/eDP	—
Display Interface	HDMI 1.4 x 1, 3840 x 2160 @30Hz
Multiple Display	1 Simultaneous Display
AUDIO	
CODEC	Realtek ALC897/892 (Optional)
AUDIO INTERFACE	Line-out (Optional)
Speaker	—
EXTERNAL I/O	
ETHERNET	Intel® i210 1GbE, RJ45 x 1
USB	USB 3.2 Gen1 x 2
SERIAL PORT	COM1 (RS232, Optional) COM2 (RS232/422/485, support 5V/12V/R, Optional)
VIDEO	HDMI 1.4 x 1
INTERNAL I/O	
USB	—
SERIAL PORT	—

## Packing List

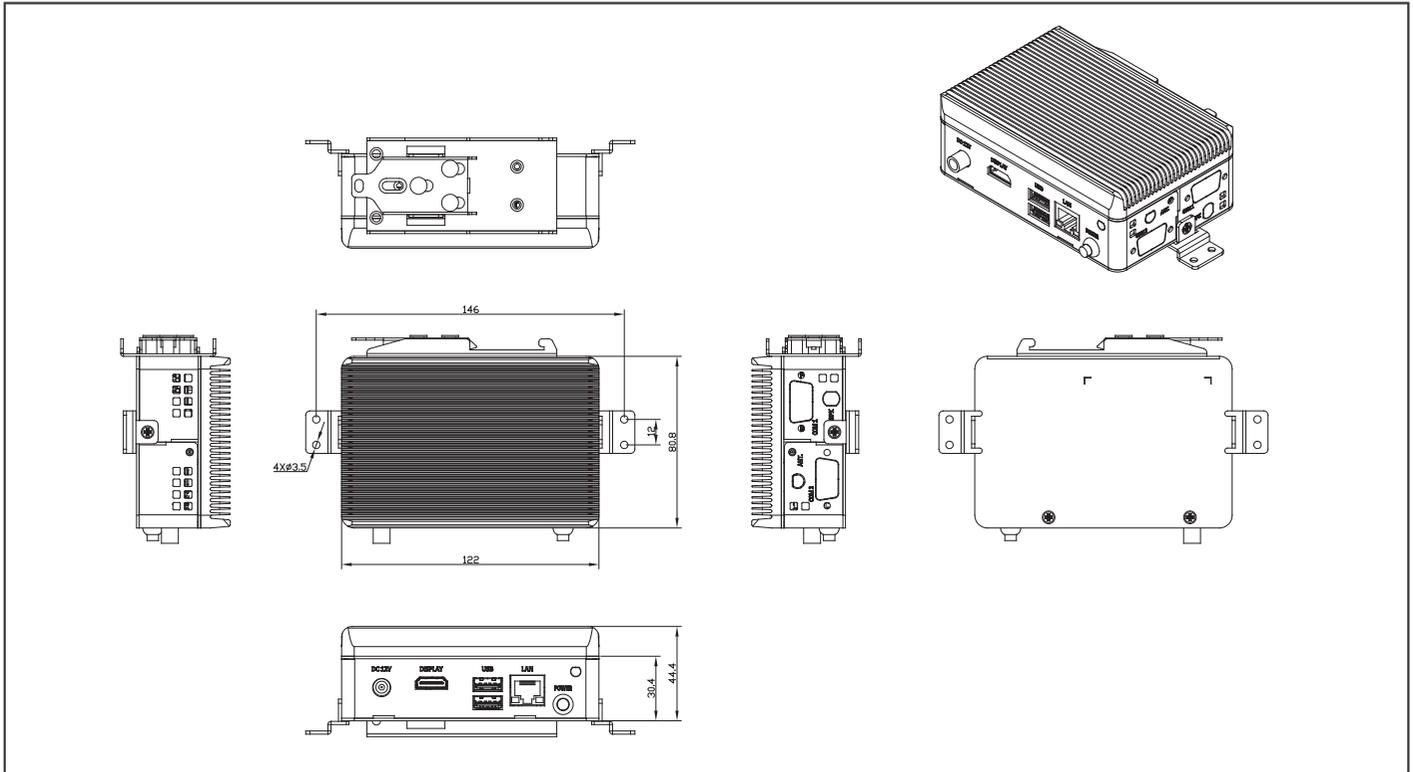
- PICO-APL1 SBC x 1
  - SEMI Top Chassis x 1
  - SEMI Bottom Chassis x 1
  - SEMI Heatsink x 1
  - SEMI power button cable x 1
- \* Customer assembly required.

## Optional Accessories

Part Number	Description	Qty.
125530040C	Power Adapter.12V.40W.FSP.FSP040-DHAN3.9NA0406805	1
1702031802	POWER CORD.3P-125V 10A 180D.1.8M USA (US Type)	1
1702031803	POWER CORD.3P-250V 10A 180D.1.8M.VDE (Europe Type)	1
170203180E	Power cord.3P.125V/7A.1.8M (Japan type)	1
1703200052	WIRE.20P.D-SUP 9P*2 + Audio *1 Cable.with GND ring.50mm	1
968C016G0V	SATA DOM.16GB.,MLC.3ME3.15nm,0~70°C.InnoDisk.DESSC-16GD09BC1SC-26CF,W/S:17411	1
9761SEMI00	WALL MOUNT KITS	1
9761SEMI01	DIN-RAIL Kits	1

## Dimension

Unit: mm



## Installation Scenario

DIN-Rail Mount Illustration



Wall Mount Illustration



Photos show assembled product, DIN Rail and Wall Mount kit are optional parts.

## Ordering Information

Part Number	CPU	Memory	Fan/Fanless	Display	Storage	LAN	USB	Expansion Slot	Power	Temp	Others
PICO-APL1-SEMI-A10-FB02	N3350	DDR3L SODIMM Socket	Fanless	HDMI	SATA x 1, mSATA x 1 (Full-size)	GbE x 1	USB 3.2 Gen 1 x 2, USB2.0 x 1	miniCard x 1 (Half-Size)	12V DC Jack	0°C ~ 50°C @ 0.5 m/s airflow	COM Port optional

\* This is a barebones kit, customer assembly is required.