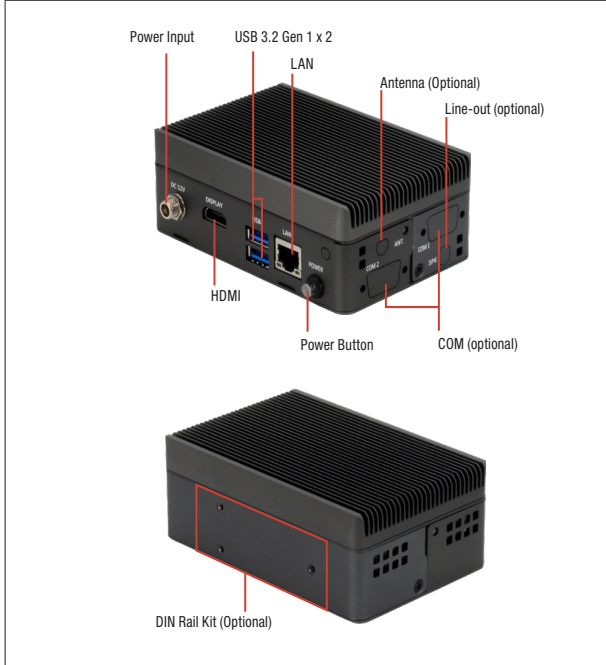


**03** **PICO-APL1-SEMI**

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

PICO-SEMI



**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	SATA III x 1 +5V SATA Power Connector x 1
AUDIO	Line-out (Optional)
DIO/GPIO	4-bit (Optional)
SMBus/I2C	SMBUS/I2C x 1 (SMBUS as default) (Optional)
Touch	—
FAN	—
SIM	—
Front Panel	HDD LED, PWR LED, Power Button, Buzzer, Reset
Others	—
<b>EXPANSION</b>	
Mini PCI-E/mSATA	Half-size Mini Card (mPCIe as default) x 1, Full size mPCIe/mSATA or USB2.0 x 1 (SATA as default, PCIe selected by HW BOM)
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**

<b>SYSTEM</b>	
FORM FACTOR	PICO-SEMI
CPU	Intel® Celeron® Processor: Celeron N3350 (2C/2T,1.10GHz,up to 2.40GHz, TDP 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 3.15" x 1.73" (122 x 80 x 44 mm)
Gross Weight	0.59 lb (0.27 kg)
OS Support	Windows 10 (64 bit)
<b>POWER</b>	
POWER REQUIREMENT	+12V
POWER SUPPLY TYPE	ATX
CONNECTOR	Lockable DC Jack Connector
POWER CONSUMPTION	Intel® N3350 Processor, DDR3L 8GB, 0.91A@+12V(TYPICAL)
<b>DISPLAY</b>	
CONTROLLER	Intel® HD Graphics 500
LVDS/eDP	—
Display Interface	HDMI 1.4b x 1 (up to 3840 x 2160)
Multiple Display	1 Simultaneous Display
<b>AUDIO</b>	
CODEC	Realtek ALC897/892 (Optional)
AUDIO INTERFACE	Line-out (Optional)
Speaker	—
<b>EXTERNAL I/O</b>	
ETHERNET	Intel® i210, 10/100/1000Base, RJ-45 x 1
USB	USB 3.2 Gen 1 x 2
SERIAL PORT	COM1: RS-232 x 1 (Optional) COM2: RS-232/422/485 x 1 (Ring/ +5V/ +12V) (Optional)
VIDEO	HDMI 1.4b x 1 (up to 3840 x 2160)
<b>INTERNAL I/O</b>	
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	(TF)Power Adapter.12V.40W.FSP.FSP040-DHAN3	1
1702031802	Power Cord (US Type)	1
1702031803	Power Cord (European Type)	1
170203180E	Power Cord (Japan Type)	1
1703200052	COM x 2 + LINE_OUT	1
968C01660V	SATA DOM 16GB (0°C ~ 70°C)	1
9761SEMI00	Wallmount Kit	1
9761SEMI01	DIN-Rail Mount Kit	1

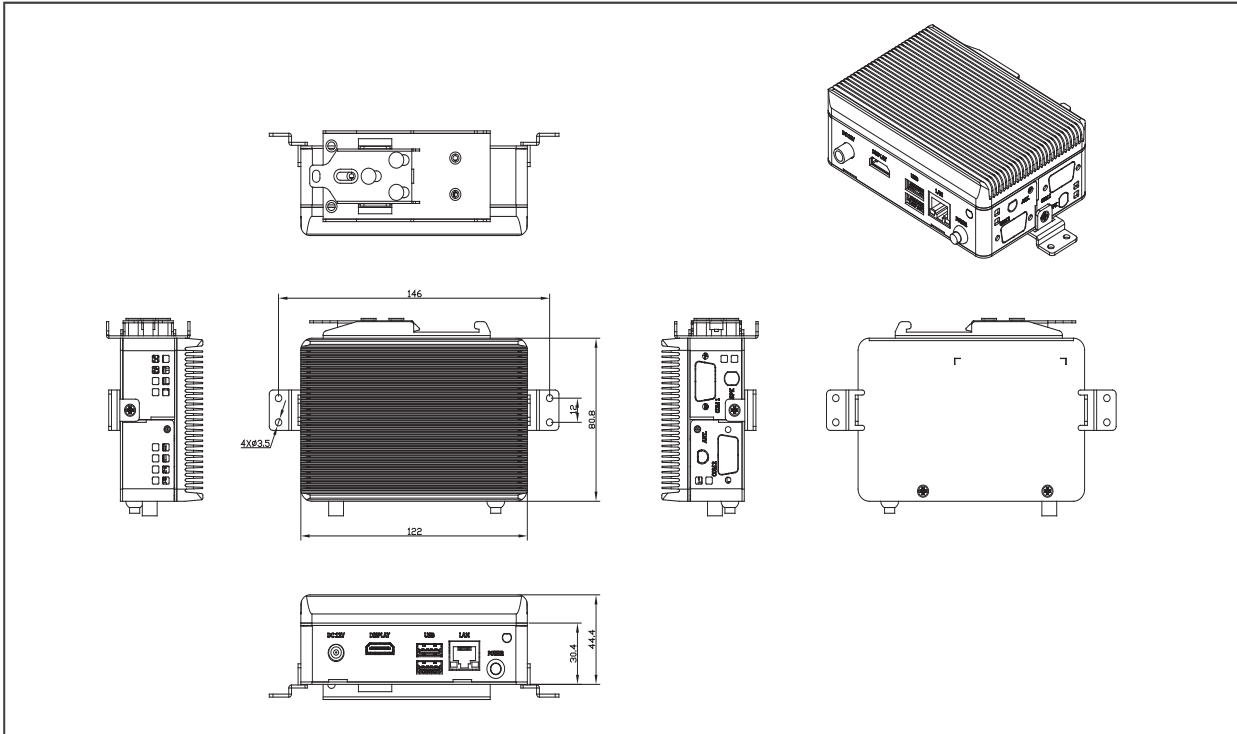
# PICO-APL1-SEMI

03

PICO-SEMI

## 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.

## 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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