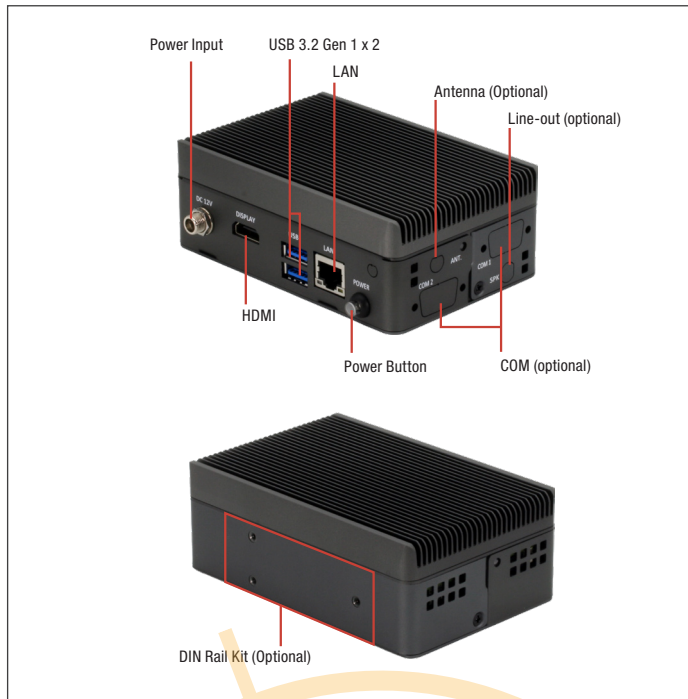


PICO-APL1-SEMI

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

PICO-SEMI



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	—

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	—
EXPANSION	
Mini PCI-E/mSATA	Full-Size mSATA/mPCIe x 1 (Default: mSATA, select with HW BOM) Half-Sized mPCIe x 1
M.2	—
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)	170,000
EMC	CE/FCC Class A

Packing List

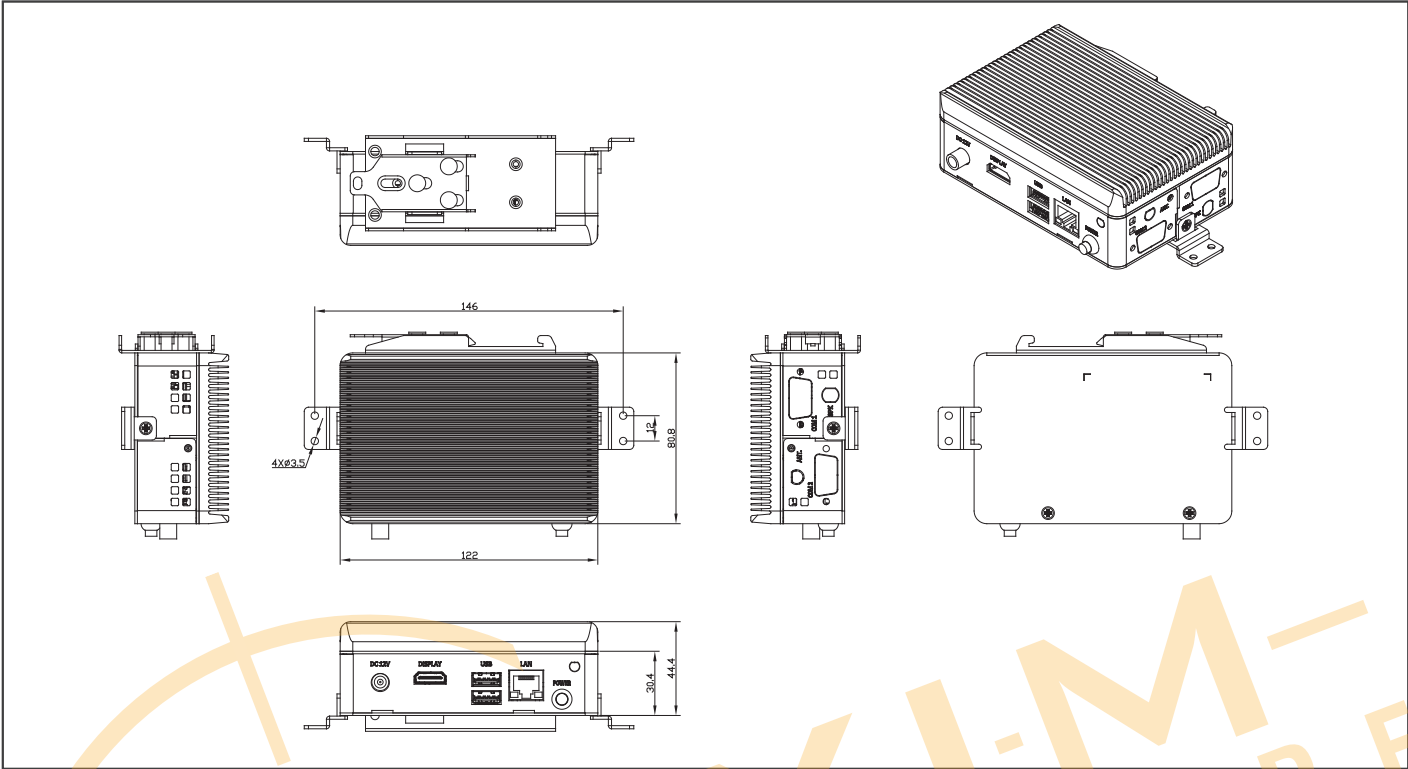
- PICO-APL1 SBC x 1
- SEMI Top Chassis x 1
- SEMI Bottom Chassis x 1
- SEMI Heatsink x 1
- SEMI power button cable x 1
- * Customer assembly required.

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,F/W:S17411	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.

Disclaimer

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All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts.

Please contact us if you have any questions about the contents of the datasheet.

This may not be the latest version of the datasheet. Please check with us if a later version is available.





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