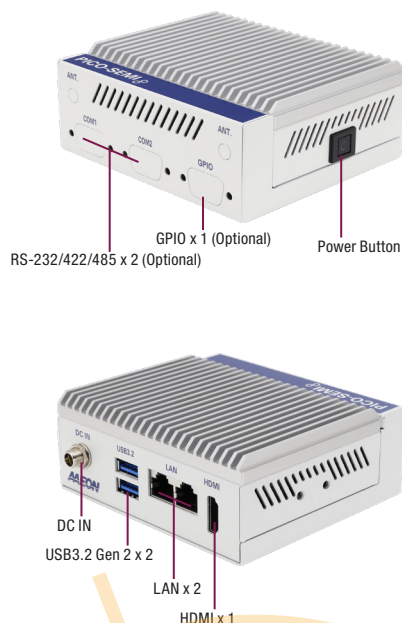


PICO-MTU4-SEMI

PICO-SEMI with Intel® Core™ Ultra 5 Processors



Specifications

System	
Form Factor	PICO-SEMI
CPU	Intel® Core™ Ultra 5 Processor 125U (2PC+10EC/14T, P core 1.30 GHz, E core 0.80 GHz, 15W)
Chipset	Integrated with Intel® SoC
Memory Type	Single Channel LPDDR5 6400, up to 32GB
BIOS	UEFI
Wake on LAN	Yes
Watchdog Timer	255 Levels
Security	TPM2.0
RTC Battery	Lithium Battery 3V/240mAh
Dimension	4.25" x 3.74" x 1.69" (108mm x 95mm x 43mm)
Gross Weight	1.10 lb (0.60 kg)
OS Support	Windows 10/11 (64 bit) Linux Ubuntu 22.04.2 kernel 5.19.0 32 generic
Power	
Power Requirement	+12V
Power Supply Type	ATX
Connector	Lockable DC Jack Connector
Power Consumption	Intel® Core™ Ultra 5 Processor 125U, LPDDR5 32GB (Micron 3UC47 D8DRX x2), 2.75A @ +12V (Typical) Intel® Core™ Ultra 5 Processor 125U, LPDDR5 32GB (Micron 3UC47 D8DRX x2), 4.95A @ +12V (Max)
Display	
Controller	Intel® Graphics
LVDS/eDP	—
Display Interface	HDMI 1.4 x 1, 3840 x 2160 @30Hz
Multiple Display	1 Display
Audio	
Codec	—
Audio Interface	—
Speaker	—
External I/O	
Ethernet	Intel® Ethernet Controller I226, 2.5GbE, RJ 45 x 1 Intel® Ethernet Connection I219, 1GbE, RJ 45 x 1
USB	USB 3.2 Gen2 x 2
Serial Port	COM 1~2 (RS-232/422/485, support 5V/12V/RI, Optional)

Features

- Intel® Core™ Ultra 5 Processor SoC
- Onboard LPDDR5, up to 32GB
- 2.5GbE Intel® Ethernet Controller I226 + 1GbE Intel® Ethernet Connection I219
- HDMI 1.4
- M.2 2280 M-Key x 1 (PCIe 4.0 [x4]/SATA)
- M.2 2230 E-Key x 1 (PCIe 4.0 [x1] + USB 2.0)
- USB 3.2 Gen 2 x 2
- RS-232/422/485 x 2 (Optional)
- TPM, GPIO 4-bit (Optional)



Video	HDMI 1.4 x 1
Internal I/O	
USB	—
Serial Port	—
Video	—
SATA	—
Audio	—
DIO/GPIO	GPIO 4-bit (Optional)
SMBus/I2C	—
Fan	—
Front Panel	HDD LED, PWR LED, Power Button, Buzzer, Reset
Others	—
Expansion	
Mini PCIe/mSATA	—
M.2	M.2 2280 M-Key x 1 (PCIe 4.0 [x4]/SATA, Default: PCIe [x4], select by BOM) M.2 2230 E-Key x 1 (PCIe 4.0 [x1] + USB 2.0)
Others	—
Environment & Certification	
Operating Temp	14°F ~ 122°F (-10°C ~ 50°C) with 0.7m/s air flow
Storage Temp	-40°F ~ 185°F (-40°C ~ 85°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing
MTBF (Hours)	1,063,716
EMC	CE/FCC Class A

Packing List

- PICO-MTU4-SEMI

Optional Accessories

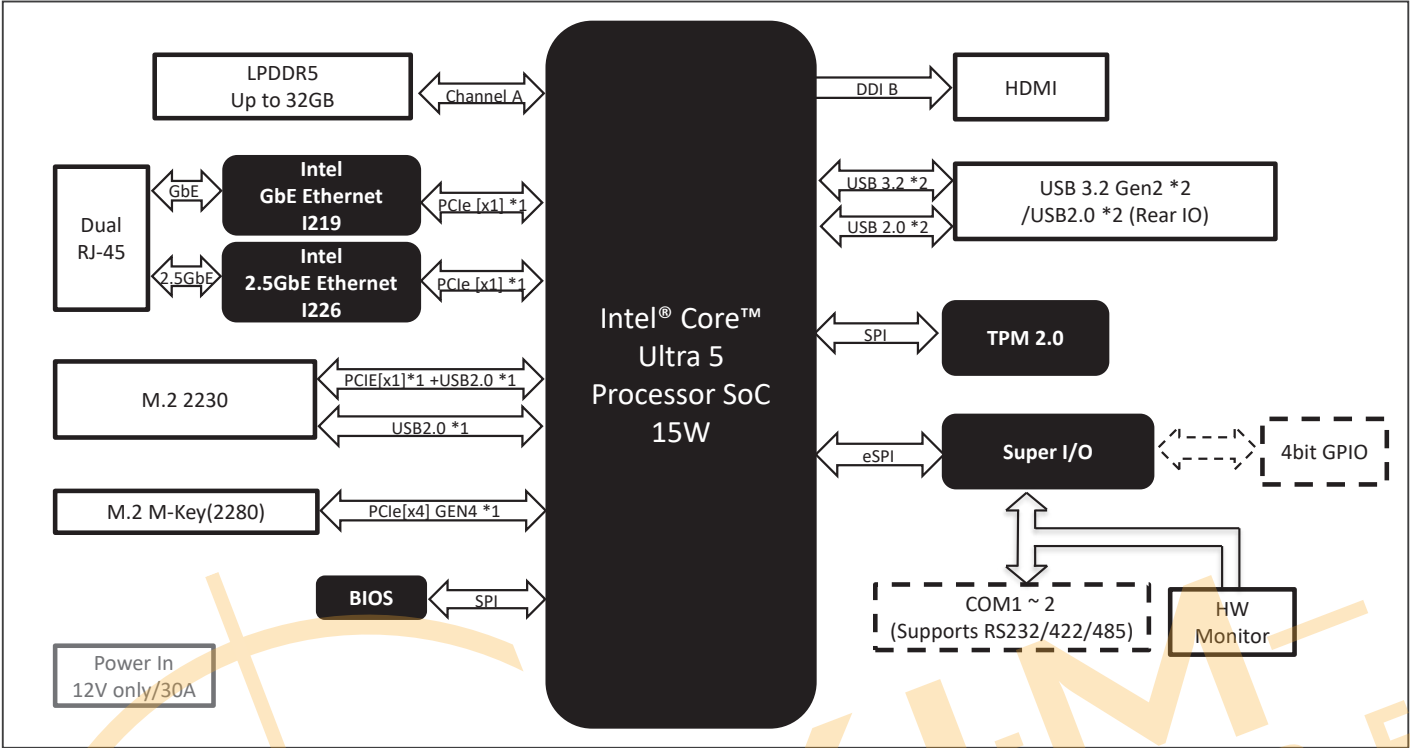
Part Number	Description	Qty.
1702031802	Power Cord (US Type)	1
1702031803	Power Cord (Europe Type)	1
170203180E	Power Cord (Japan)	1
1255X00063	AC/DC Adapter.100~240V.150W.12V/12.5A.AC C14 DC JACK W/ Lock 180D. DELTA.DPS-150AB-15 J	1
170X001114	GPIO cable (150mm)	1
170X001117	Dual COM port cable (120mm)	1
PICO-SEMI-WMT1	PICO-MTU4-SEMI Wallmount bracket kit	1
PICO-SEMI-DIN01	Din rail kit.25mm*48.3mm	1



PICO-MTU4-SEMI

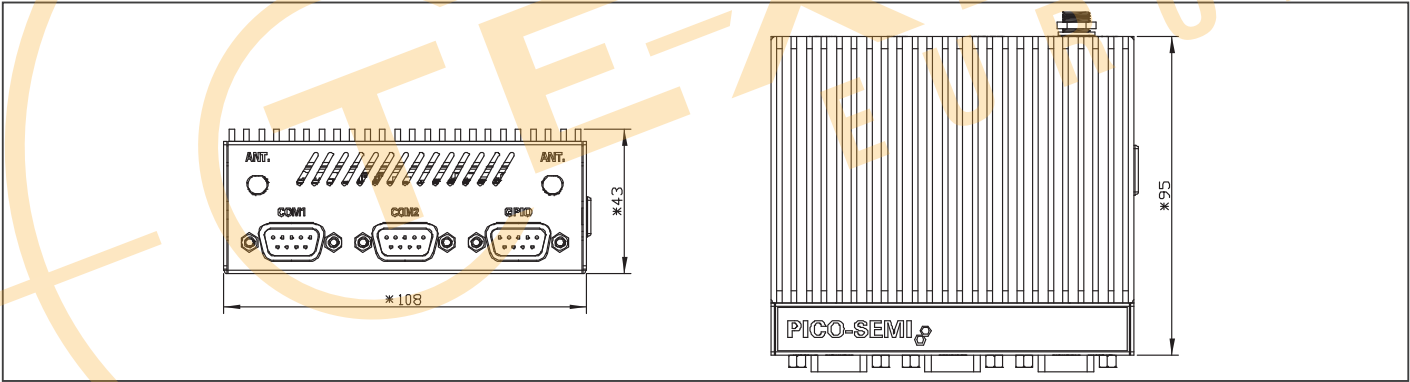
PICO-SEMI

Block Diagram



Dimension

Unit: mm



Ordering Information

Part number	CPU	Memory	Display	Storage	LAN	USB	RS-232/422/485	Expansion slot	Power	Operating Temp	Others
PICO-MTU4-SEMI-A10-P001	Intel® Core™ Ultra 5 Processor 125U	LPDDR5 16GB	HDMI x 1	—	GbE x 1 2.5GbE x 1	USB3.2 Gen 2 x 2	—	M.2 2230 E-key x 1 M.2 2280 M-key x 1	+12V ATX	-10°C ~ 50°C	TPM2.0
PICO-MTU4-SEMI-A10-P002	Intel® Core™ Ultra 5 Processor 125U	LPDDR5 32GB	HDMI x 1	—	GbE x 1 2.5GbE x 1	USB3.2 Gen 2 x 2	—	M.2 2230 E-key x 1 M.2 2280 M-key x 1	+12V ATX	-10°C ~ 50°C	TPM2.0

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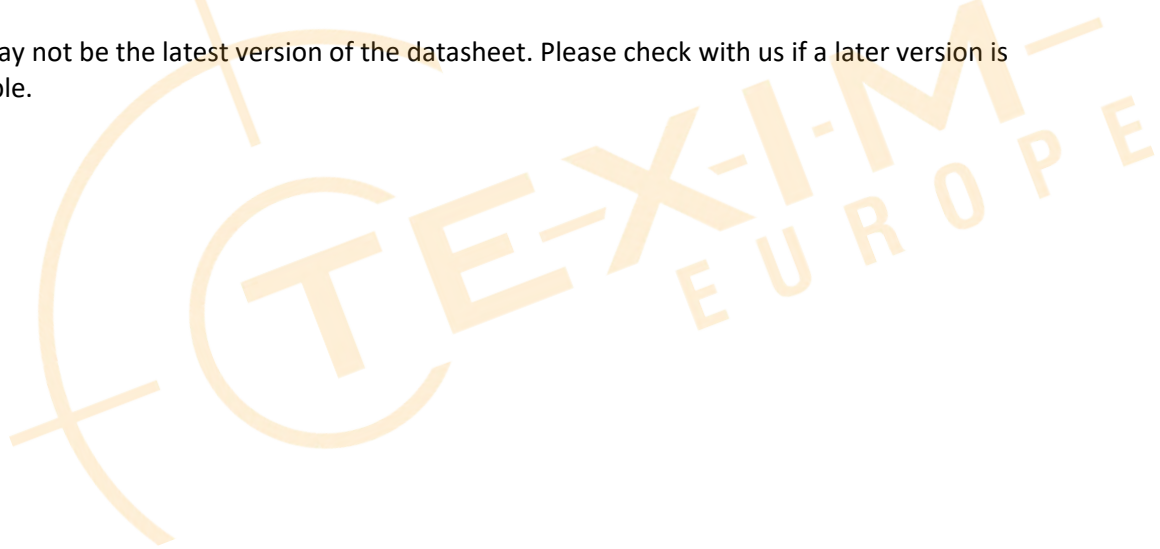
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Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time.

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.

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