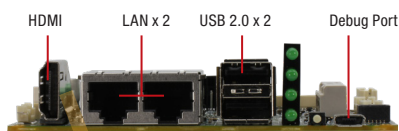
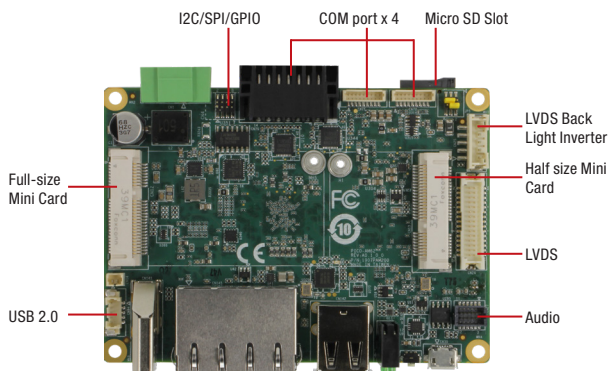
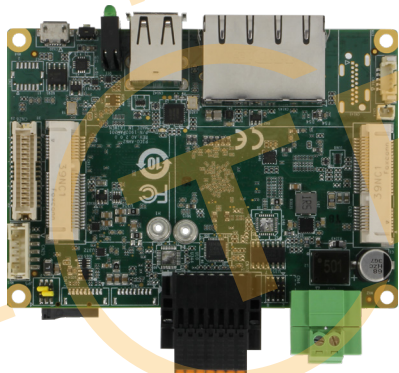


PICO-AM62

Pico-ITX Board with TI AM62x Sitara™ Processors



Phoenix Connector



Features

- ARM TI AM62x, up to Quad 64-bit Arm® Cortex®-A53
- DDR4, up to 4 GB, eMMC 5.1 x 1
- HDMI 1.4b x 1, LVDS x 1
- GbE x 2
- USB 2.0 host/device x 1, USB 2.0 x 2
- Minicard x 2 (half x 1, full x 1)
- COM x 4, CAN x 2, TPM 2.0



USB	USB 2.0 Gen1 x 2 (rear I/O) -Host/device by image option, default: host x 1 -Host x 1 USB2.0 (Pin Header) x 1
ADC	—
DI/DO	—
CAN Bus	CAN-FD x 2 CH, Phoenix Connector (optional)
Display	HDMI 1.4b up to 1080p x 1 LVDS x 1, dual channel, 18/24bit
Power Connector	2 Pin 3.81mm Pitch Phoenix Connector
Debug Port	Micro USB x 1
Expansion Slot	Half Size Mini Card (USB2.0) x 1, power control available by software Full Size Mini Card (USB2.0) x 1, power control available by software SPI x 4 (optional) I2C x 2 (optional) UART x 2 (optional)
Other Interface	GPIO x 1, I2C x 1, SPI x 1 (CSx2)
Power Supply	
Power Requirement	DC 9-36V (Optional: 12V)
Power Consumption	5.76W (Full Loading)
MTBF (Hours)	1,279,408 Hours
Environmental and Mechanical	
Dimension	3.94" x 2.84" (100mm x 72mm)
Weight	0.18 lbs (0.08 kg)
Mount Options	—
Operation Temperature	-40 °F ~ 185 °F (-40 °C ~ 85 °C) (Option: 0°C ~ 60°C)
Storage Temperature	-40 °F ~ 185 °F (-40 °C ~ 85 °C)
Operation Humidity	0% ~ 90% relative humidity, non-condensing
Certification	CE/FCC Class A

Specifications

System	
Form Factor	PICO ITX , 2.5" SBC
Processor	ARM TI AM62x, up to Quad 64-bit Arm® Cortex®-A53
Memory	Onboard DDR4 16 bit, up to 4 GB
Storage	eMMC 5.1 16 GB (Optional 32/64/128 GB) Micro SD Card slot x1
Real Time Clock	RTC x 1, with 3V CR2032H Lithium battery
Security	TPM 2.0 (optional)
Indicators	Programmable LED control x 3
Cellular	Full Size Mini Card x 1 (USB signal)
Wireless Lan	Half Size Mini Card x 1 (USB signal)
Operating System	Debian 12 (w/ GUI)
Support Protocol	—
I/O Interfaces	
Serial Port	RS-232/422/485 switchable x 4, 2 by Phoenix Connector, 2 by pin header
Ethernet	Gigabit Ethernet x 2, RJ-45 support IEEE 1588, TSN, integrated RGMII
Audio	Line in / Line Out / Mic x 1 (optional)

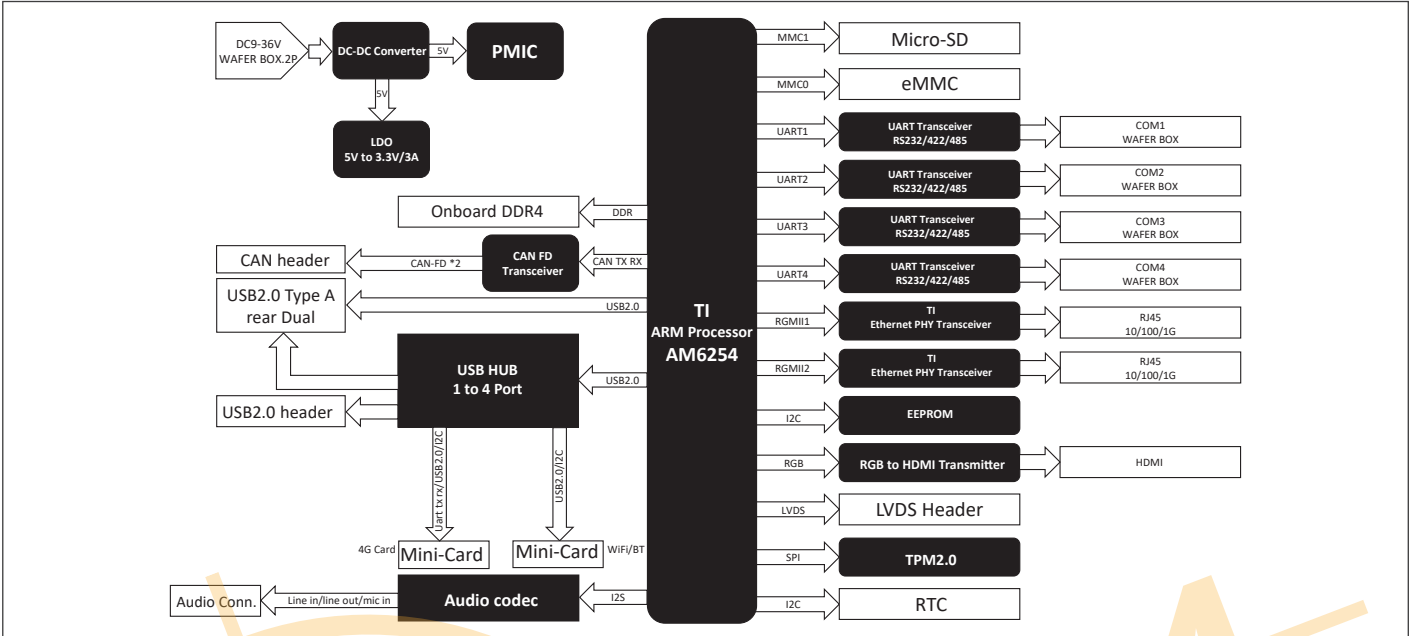
Packing List

- PICO-AM62 x 1
- 2pin 3.81mm Power Terminal block w/lock AWG 28~14 x 1
- 14pin 2.54mm Phoenix plug in Connector/lock AWG 30~20 x 1

Optional Accessories

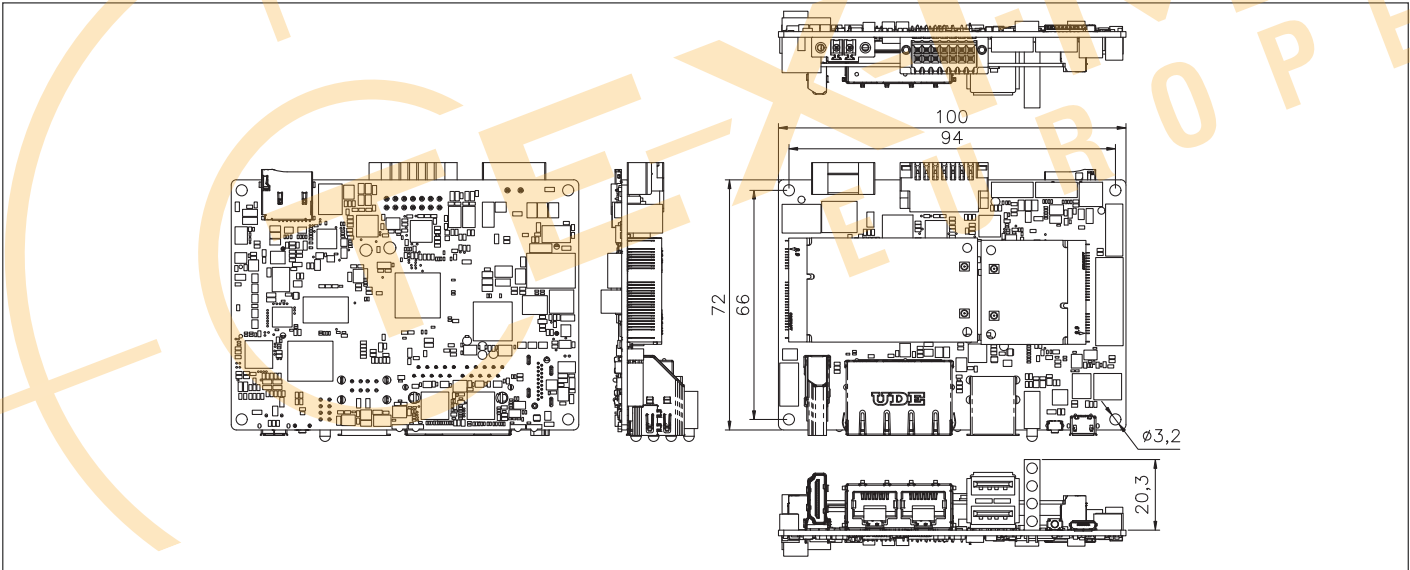
Part Number	Description
9741EG25G0	PCIe mini card. 4G LTE. module kit. Global Band W/ SIM holder. W/Cable & antenna. Quectel. EG25-G
9651239A00	Mini card WiFi Kit.802.11ac/a/b/g/n. BT5.0. W/ Cable&Antenna.SparkLan.WPET-239ACN(BT)
1700050207	USB2.0 cable. 20cm
170X000156	Audio cable. 25cm
170X000866	COM cable. 12cm
9651PX8L00	AC/DC Adapter.100V-240V.12VDC.40W.3.34A (for sample order), w/packaging box
170203180J	POWER CORD.3P-250V 13A.1.8M.UK
170X000799	POWER CORD.3P-125V 10A.1.8M.USA
170X000800	POWER CORD.3P-250V 10A.1.8M.EU
170X000806	POWER CORD.3P-125V 7A.1.8M.TWN
170X000803	POWER CORD.3P-125V 7A.1.8M.JPN

Block Diagram



Dimension

Unit: mm



Ordering Information

Part Number	CPU	NPU	Memory	Display	Storage	LAN	USB	COM	Expansion slot	Power	Operation Temp.	Audio	Others	OS
PICO-AM62-A10-0001	ARM TI AM6232, Dual-Core Cortex-A53 1.4GHz Processor	—	Onboard DDR4 2GB	LVDS x 1	eMMC 16GB, MicroSD x 1	GbE x 1	USB 2.0 x 3	RS232(2-wire)/422/485 x 2	Half Size Mini Card x 1 Full Size Mini Card x 1	+12V (Lockable terminal block)	-40°C ~ 85°C	—	SPI x 1, I2C x 1, GPIO x 1 CAN 2.0 FD x 2	Debian 12
PICO-AM62-A10-0002	ARM TI AM6254, Quad-Core Cortex-A53 1.4GHz Processor	—	Onboard DDR4 2GB	HDMI x 1 LVDS x 1	eMMC 16GB, MicroSD x 1	GbE x 2	USB 2.0 x 3	RS232(2-wire)/422/485 x 2 RS232/422/485 x 2	Half Size Mini Card x 1 Full Size Mini Card x 1	+ 9 ~ 36 V (Lockable terminal block)	-40°C ~ 85°C	Line in / Line Out / Mic x 1	SPI x 1, I2C x 1, GPIO x 1, TPM x 1 CAN 2.0 FD x 2	Debian 12

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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.

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





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