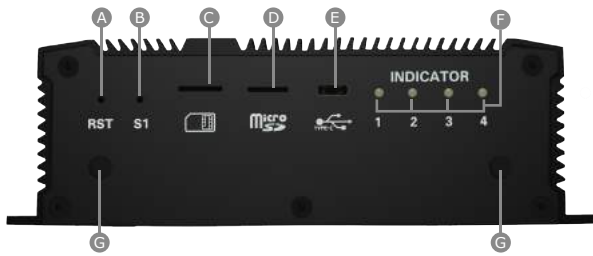
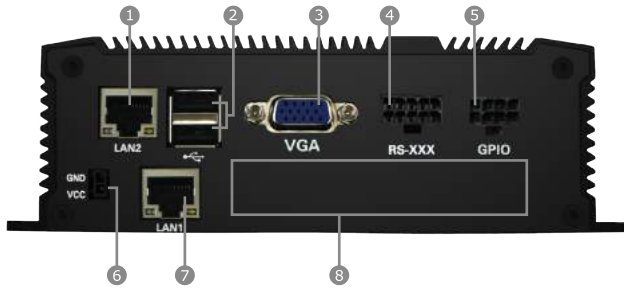


TEK3-IMX6UL



- A: Reset Button
- B: S1 Button
- C: Micro-SIM cardslot
- D: microSD cardslot
- E: USB 2.0 OTG (TYPE-C)
- F: 4x LED
- G: Antenna Hole



- 1: LAN2
- 2: USB 2.0
- 3: VGA
- 4: RS-232
- 5: GPIO
- 6: Power
- 7: LAN1
- 8: Expansion I/O

Main Features

- TEK3-IMX6UL is an ultra-efficient, low-power fanless box PC based on a single core ARM Cortex-A7 NXP i.MX6UL processor.
- Compatible with TechNexion expansion boards series for additional input and output.
- Dual Fast Ethernet LAN ports.



yocto
PROJECT



Specifications

Core System

Processor	NXP i.MX6 UL
Architecture	ARM Cortex-A7
PMIC	NXP PF3000
Memory	up to 1GB DDR3L
Storage	eMMC (4GB Default)

Buttons	1x Boot Select 1x Reset
Indicators	4x Programmable LED's
SIM Cardslot	1x Micro-SIM cardslot
SD Cardslot	1x microSD cardslot

Connectivity

Network LAN	2x Micrel KSZ8081RNBCA 10/100 LAN
Power over Ethernet	PoE function 802.3at (optional)

Power Specifications

Power Input	12V 24V 8-36V (wide power input)
Power Over Ethernet	PoE function 802.3at (optional)
Power Connector	2-pin Micro-Fit 3.0
Power Consumption	Depending on Configuration

Expansion Interfaces

Expansion Slots	1x M.2 slot (USB signals only) 1x mini-PCIe with Micro-SIM cardslot (USB signals only)
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Operation Systems

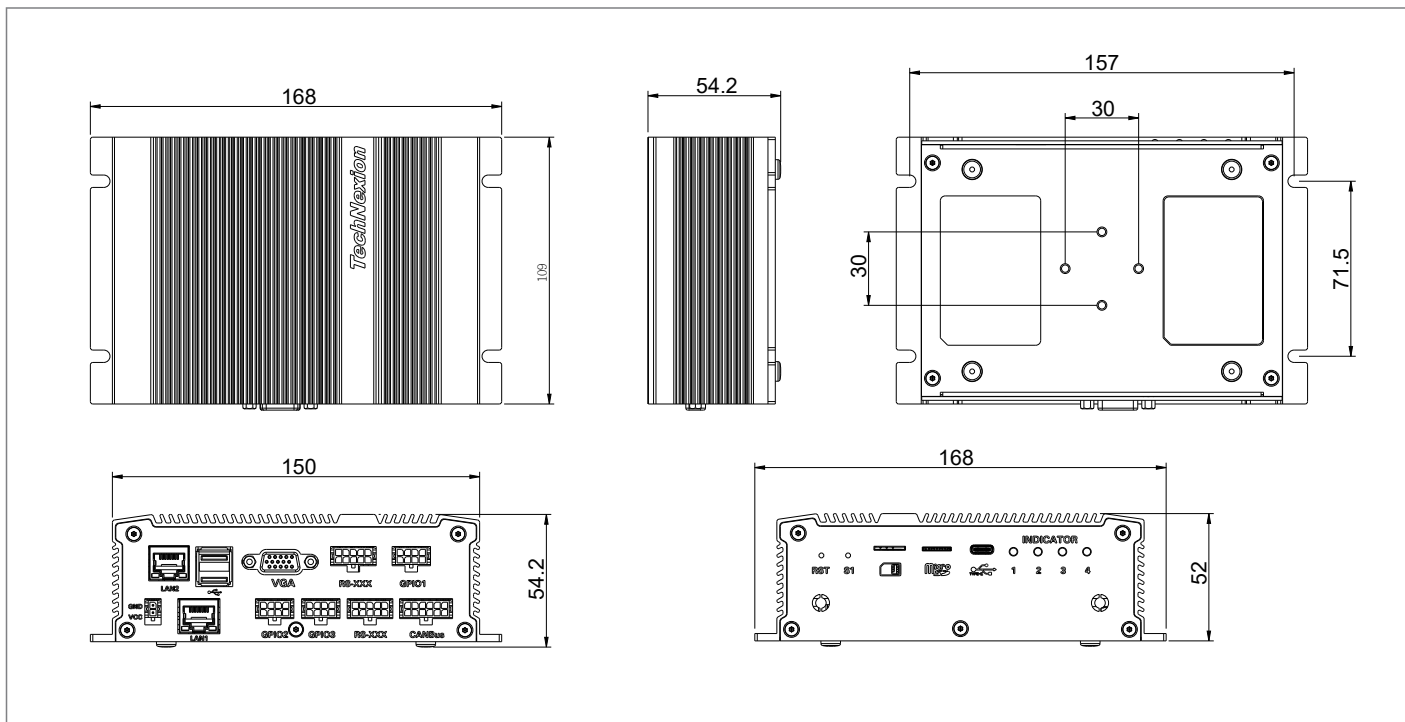
Standard Support	Linux Yocto Ubuntu
Extended Support	Commercial Linux

External Connectors

External Display	1x VGA 15-pin D-SUB
Audio Connectors	1x 3.5mm jack Microphone 1x 3.5mm jack Stereo Audio in 1x 3.5mm jack Stereo Audio out
Network	2x RJ45
USB	1x USB 2.0 OTG (Type-C) 2x USB 2.0 Host
Serial	2x RS-232
GPIO	4x GPIO

Dimensions

(units in mm)



Environmental and Mechanical

Enclosure Material	Anodized Aluminium
Dimensions	168 (W) x 109 (H) x 55 (D) mm
Weight	705 grams
Temperature	Commercial: 0° to +50° C
Relative Humidity	10 to 90 %
MTBF	50 000 Hours
Shock	30G half-sine 11 ms duration
Vibration	3 Grms random 5-500Hz hr/axis
Certification	Compliant with CE / FCC / RoHS / REACH directives

Modular Expansion Options

Power Expansion Module	TXB-P1-12V-LAN1 (12V 3A)
	TXB-P1-24V-LAN1 (24V 3A)
	TXB-P1-1030V-LAN1 (8-36V 5A)
	TXB-P1-12V-POE1 (12V 3A) or (PoE 802.3at)
I/O Expansion Module	TXB-I2-GS2-GC2-GG8 (Galvanic Isolated) 2x RS-232 + 2x CAN + 8x GPIO
	TXB-I2-S2-C2-G8 2x RS-232 + 2x CAN + 8x GPIO

Mounting Options

Surface Mounting	4 mounting holes
DIN Mounting	30mm DIN rail standard (DIN bracket separate purchase)

Ordering Information

TEK3-IMX6G-05-Rxx-Exx-x-Lxxx-xxxx-xx-xxxx

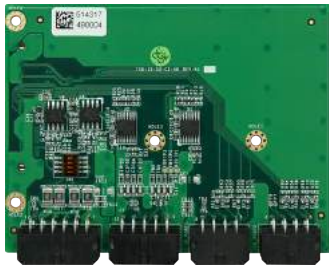
	Code	Description
Processor	IMX6G	NXP i.MX6UltraLite
Processor Speed	05	528MHz
Memory	R02	256MB DDR3L
	R05	512MB DDR3L
	R10	1GB DDR3L
Storage	E04	eMMC capacity in Gigabytes E04 = 4GB / E08 = 8GB / E16 = 16GB E32 = 32GB / E64 = 64GB /
Electrical Isolation	-	-
	G	Galvanic Isolated
Power Expansion	L112	TXB-P1-12V-LAN1 (12V 3A)
	L124	TXB-P1-24V-LAN1 (24V 3A)
	L130	TXB-P1-1030V-LAN1 (8-36V 5A)
	LPOE	TXB-P1-12V-POE1 (12V 3A) or (PoE 802.3at)
I/O Expansion	-	-
	XS20	2x RS-232 + 2x CAN + 8x GPIO
	XG20	2x RS-232 + 2x CAN + 8x GPIO (Galvanic Isolated)
Temperature Range	-	Commercial Temperature range (0° to 50° C)
Custom ID	XXXX	Custom Part number ID for customized Software loader and special component (BOM)

* Feel free to contact us for customization requests.



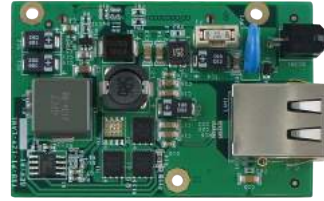
TXB-I2-GS2-GC2-GG8

- 1x GALVANIC ISOLATED SERIAL PORT RS232/422/485
- 1x GALVANIC ISOLATED SERIAL PORT RS232
- 2x GALVANIC ISOLATED CAN BUS CONTROLLER
- 4x GALVANIC ISOLATED GPIO INPUT
- 4x GALVANIC ISOLATED GPIO OUTPUT



TXB-I2-S2-C2-G8

- 2x SERIAL PORTS RS232
- 2x CAN BUS CONTROLLER
- 8x GPIO



TXB-P1-12V-LAN1

- 12V DC POWER INPUT
- 1x RJ45 LAN CONNECTOR



TXB-P1-24V-LAN1

- 24V DC POWER INPUT
- 1x RJ45 LAN CONNECTOR



TXB-P1-1030V-LAN1

- 8-36V DC WIDE POWER INPUT
- 1x RJ45 LAN CONNECTOR



TXB-P1-12V-POE1

- POWER OVER ETHERNET (802.3at)
- 12V DC POWER INPUT
- 1x RJ45 CONNECTOR