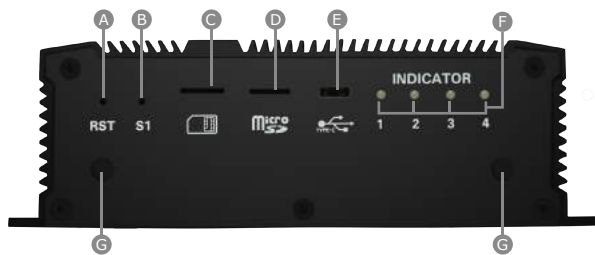
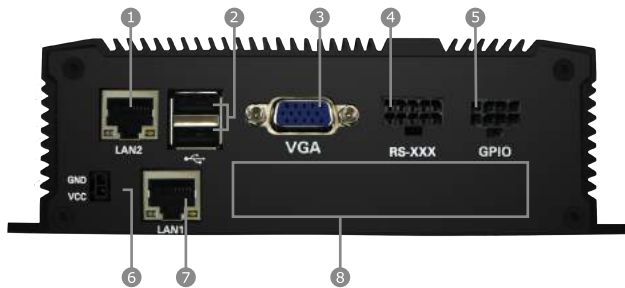


TEK3-IMX6UL



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)

Connectivity

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

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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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

Buttons

1x Boot Select

1x Reset

Indicators

4x Programmable LED's

SIM Cardslot

1x Micro-SIM cardslot

SD Cardslot

1x microSD cardslot

Power Specifications

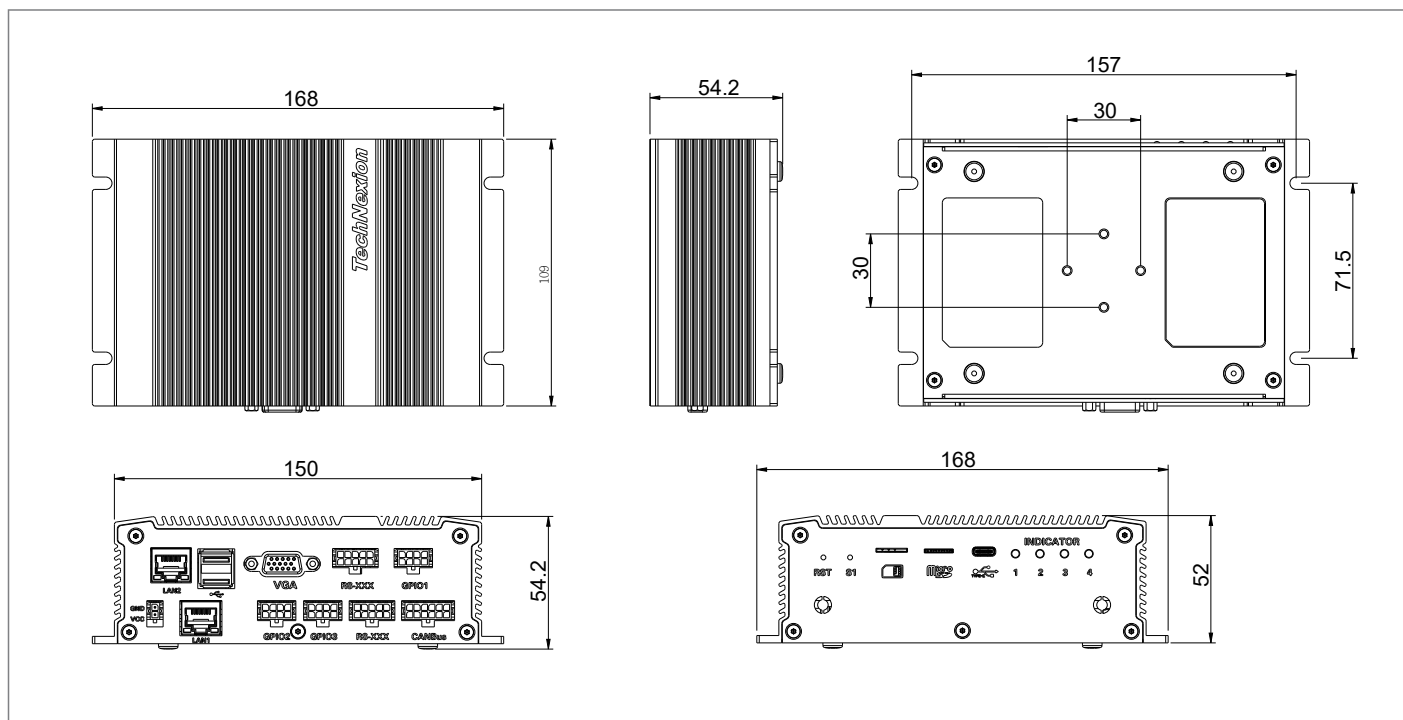
Power Input	12V 24V 8-36V (wide power input)
Power Over Ethernet	PoE function 802.3at (optional)
Power Connector	2-pin Micro-Fit 3.0
Power Consumption	Depending on Configuration

Operation Systems

Standard Support	Linux Yocto Ubuntu
Extended Support	Commercial Linux

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

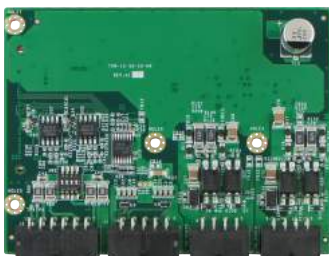
	Code	Description
Processor	IMX6G	NXP i.MX6UltraLite
Processor Speed	05	528MHz
Memory	R02	256MB DDR3L
	R05	512MB DDR3L
	R10	1GB DDR3L
Storage	E04	eMMC capacity in Gigabytes E04 = 4GB / E08 = 8GB / E16 = 16GB E32 = 32GB / E64 = 64GB /
	-	-
Electrical Isolation	-	-
	G	Galvanic Isolated
Power Expansion	L112	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