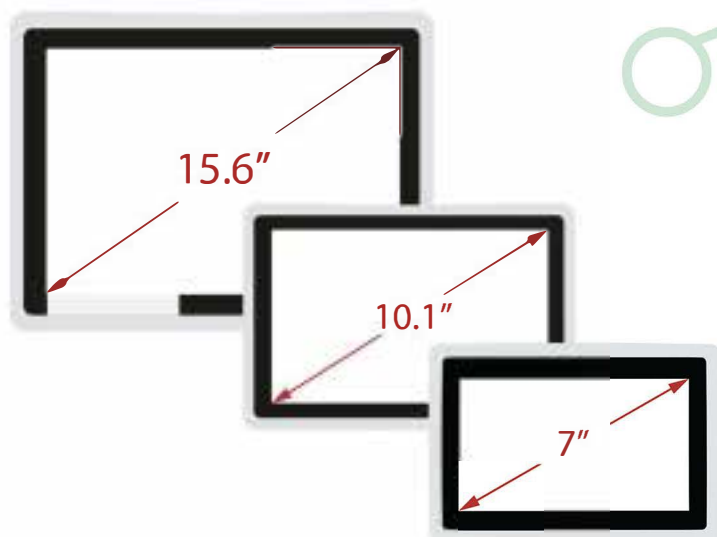


TEP SERIES



yocto
PROJECT



TEP SERIES

TEP Series

The TEP-Series human-machine interface (HMI) panel computing devices are based on ARM or x86 technology enclosed in an aluminium enclosure featuring a cable-less design having all I/O connectors on the main SBC or brought towards the Power Networking or Automation I/O Expansion Modules by using a high-speed board-to-board connector.



The TEP Series features multiple internal mini PCIe sockets and M.2 expansion slots for Solid State Drives (SSD), 3G, LTE and Wi-Fi expansion modules. Providing an arsenal of possibilities to connect the TEP-Series to the Cloud or remote networks.

Power and Networking Expansion Module Interface

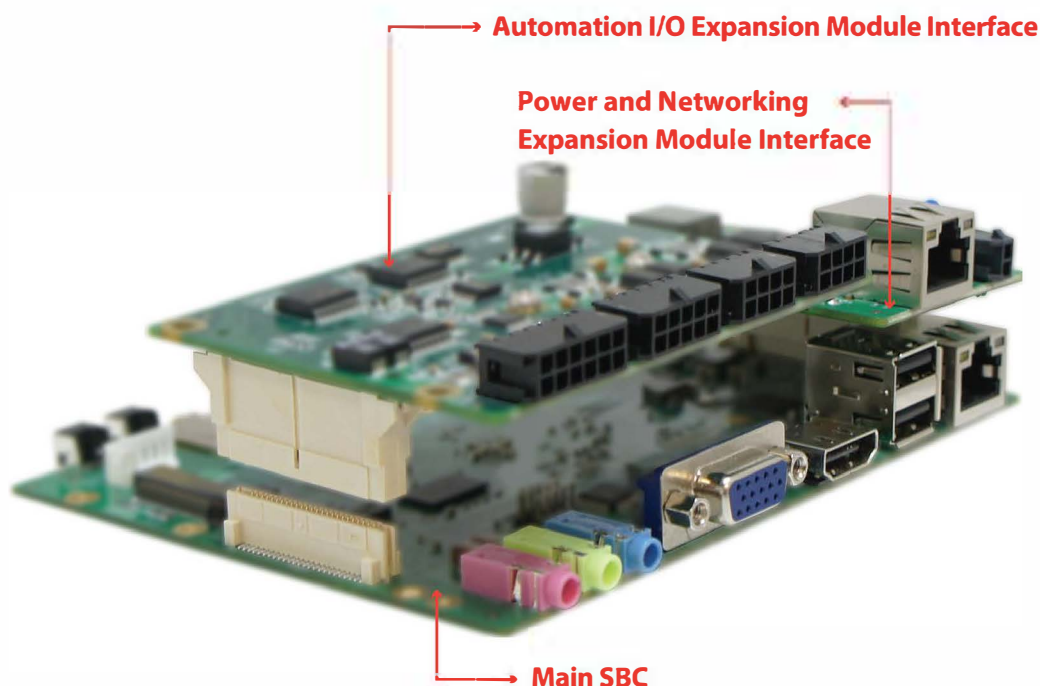
The TEP-Series comes with a Power and Networking Expansion Module that not only adopts to the end-user application power requirements but also adds networking and control I/O such as SPI, I²C and GPIO.

A range of off-the-shelf modules are available with a single 12VDC, 24VDC input or an 10-30VDC wide power input. Additionally modules are available with Power-over-Ethernet and smart network switching capabilities to the TEP-Series.

Automation I/O Expansion Module Interface

Expanding the TEP-Series with an additional I/O Module that adds CAN Bus, UART, I²C, SPI, USB and GPIO interfaces.

A range of off-the-shelf modules are available with galvanic isolated I/O, RS-232/422/485 or an extensive number of GPIO's.





TechNexion and Open Source

TechNexion TEP series come standard with source code and binary demo images for the following Operating Systems:



Android binary demo images, instructions to make your own, as well as complete source code available.



Linux binary demo images and full source code u-boot, kernel and support packages available.



Yocto binary demo images and full source code u-boot, kernel and support packages available.



Ubuntu binary demo images available.

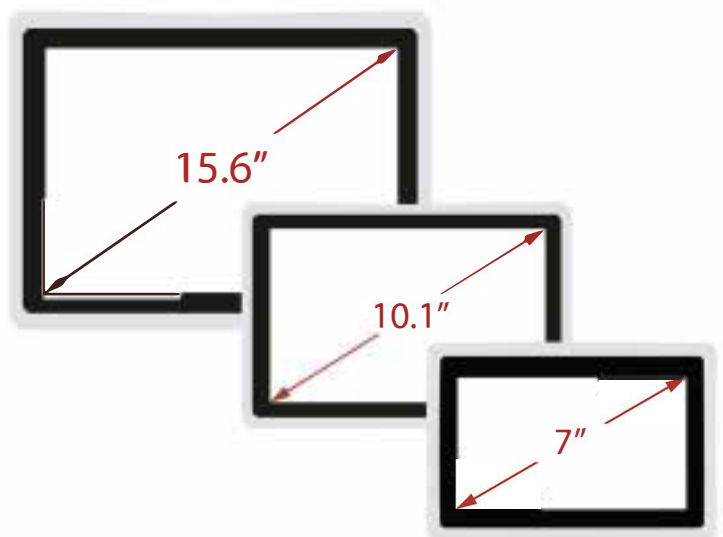


Windows support packages available on x86 models.

TEP Display and Touch

The TEP-Series features a flux mounted projective capacitive touch with high brightness vivid LCD display ranging from 7 up to 15.6 inch embedded in a IP65/NEMA4x rated brushed aluminium bezel design.

Customization of the aluminium bezel appearance is available ranging from brushed to sandblasted and colouring to match end-equipment cosmetic constrains.



HUMAN MACHINE INTERFACES

controlling your operations
while saving on
energy consumption and cooling



OVERVIEW



Model Name	TC-0700	TEP-0700
Screen size	7 inch	7 inch
Resolution	1024 x 600	1024 x 600
Luminance	500 cd/m ²	500 cd/m ²
CPU	iMX6 Solo 1GHz iMX6 Duallite 1GHz	iMX6 Solo 1GHz iMX6 Duallite 1GHz iMX6 Dual 1GHz iMX6 Quad 1GHz
Memory	up to 2GB	up to 2GB
Storage	eMMC (4G)	eMMC (4G)
Removable Storage	Micro SD	Micro SD
1st LAN	POE 802.3at	POE 802.3at
2nd LAN		
WiFi	802.11bgn (Option)	802.11bgn (Option)
Bluetooth	BT v. 4.0 (Option)	BT v. 4.0 (Option)
HDMI	✓	✓
USB OTG	✓	✓
USB Host	✓	✓
Serial	2	2
CAN Bus	2	2
GPIO	4	4
Input power	10~30V DC	10~30V DC
Audio (optional)	2W Stereo	2W Stereo
Weight	595grams	900grams
Dimensions	184(W) x 122(H) x 30(D) mm	198(W) x 137(H) x 48(D) mm
Certification	Compliant with CE, FCC	Compliant with CE, FCC



Model Name	TEP5-IMX6-1010	TEP5-BSW-1010
Screen size	10.1 inch	10.1 inch
Resolution	1280 x 800	1280 x 800
Luminance	350 cd/m ²	350 cd/m ²
CPU	iMX6 Solo 1GHz iMX6 Dualite 1GHz iMX6 Dual 1GHz iMX6 Quad 1GHz iMX6 QuadPlus 1GHz	Pentium® N3710 (4x 1.60GHz) Celeron® N3160 (4x 1.60GHz) Celeron® N3060 (2x 1.60GHz) Celeron® N3010 (2x 1.04GHz) Atom™ x5-E8000 (4x 1.04GHz)
Memory	up to 4GB	up to 8GB So-Dimm DDR3
Storage	SATA(Dual, Quad) eMMC (4G)	SATA, M.2 SSD eMMC Optional
Removable Storage	Micro SD	Micro SD
1st LAN	Atheros 8031 Gigabit LAN	Intel i211 Gigabit LAN
2nd LAN		✓
External Display	HDMI	2x mini DP
USB OTG	✓	✓
USB Host	✓	✓
Audio	3x 3.5mm audio jack	3x 3.5mm audio jack
mini-PCle + SIM cardslot	2	2
M.2 Connector	2	2
CAN Bus	2 * note 1	
Serial	2 * note 1	2 * note 1
GPIO	8 * note 1	8 * note 1
Power	2 pin Microfit Connector * note 2	2 pin Microfit Connector * note 2
Weight	1200 grams	1200 grams
Dimensions	263(W) x 182(H) x 72(D) mm	263(W) x 182(H) x 72(D) mm
Certification	Compliant with CE, FCC	Compliant with CE, FCC

* Note 1 : Available on I/O Expansion Board

* Note 2 : Available on Power Expansion Board



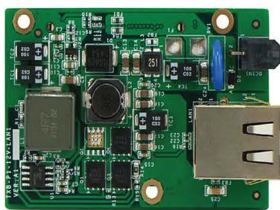
Model Name	TEP5-IMX6-1560	TEP5-BSW-1560
Screen size	15.6 inch	15.6 inch
Resolution	1366 x 768	1366 x 768
Luminance	300 cd/m ²	300 cd/m ²
CPU	iMX6 Solo 1GHz iMX6 Duallite 1GHz iMX6 Dual 1GHz iMX6 Quad 1GHz iMX6 QuadPlus 1GHz	Pentium® N3710 (4x 1.60GHz) Celeron® N3160 (4x 1.60GHz) Celeron® N3060 (2x 1.60GHz) Celeron® N3010 (2x 1.04GHz) Atom™ x5-E8000 (4x 1.04GHz)
Memory	up to 4GB	up to 8GB So-Dimm DDR3
Storage	SATA(Dual, Quad) eMMC (4G)	SATA, M.2 SSD eMMC Optional
Removable Storage	Micro SD	Micro SD
1st LAN	Atheros 8031 Gigabit LAN	Intel i211 Gigabit LAN
2nd LAN		✓
External Display	HDMI	2x mini DP
USB OTG	✓	✓
USB Host	✓	✓
Audio	3x 3.5mm audio jack	3x 3.5mm audio jack
mini-PCIe + SIM cardslot	2	2
M.2 Connector	2	2
CAN Bus	2 * note 1	
Serial	2 * note 1	2 * note 1
GPIO	8 * note 1	8 * note 1
Power	2 pin Microfit Connector * note 2	2 pin Microfit Connector * note 2
Weight	2200 grams	2200 grams
Dimensions	407(W) x 257(H) x 83(D) mm	407(W) x 257(H) x 83(D) mm
Certification	Compliant with CE, FCC	Compliant with CE, FCC

* Note 1 : Available on I/O Expansion Board

* Note 2 : Available on Power Expansion Board

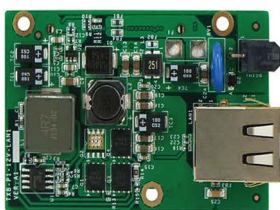


EXPANSION MODULES



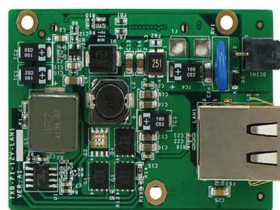
TXB-P1-12V-LAN1

- 12 VDC power input
- 1x RJ45 LAN connector



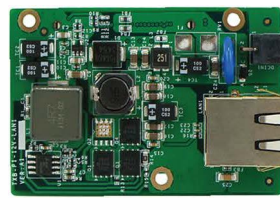
TXB-P1-24V-LAN1

- 24 VDC power input
- 1x RJ45 LAN connector



TXB-P1-1030V-LAN1

- 10~30 VDC wide power input
- 1x RJ45 LAN connector



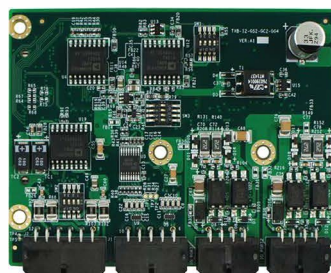
TXB-P1-12V-POE1

- 12 VDC power input
 - 1x RJ45 connector
- Power over Ethernet (802.3at)



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



TechNexion

