

TC-0710



- TC-0710 is an ultra-efficient, low power, fanless HMI based on a Solo, DualLite, or Quad core ARM Cortex-A9 NXP i.MX6 processor.
- 7 inch Projective Capacitive (multitouch) high resolution (1024 x 600) bright (500 nits) widescreen LCD with LED backlight.
- Galvanic isolated CAN Bus and Serial (RS-232/422/485) ports.
- USB 2.0 Host, USB 2.0 OTG, microSD cardslot, 4x GPIO (galvanic isolated) and HDMI for secondary display.
- PoE function 802.3at or 9-36V DC power input.
- Available with brushed aluminum bezel.

Specifications



yocto
PROJECT



Core System

Processor	NXP i.MX6 Solo NXP i.MX6 DualLite NXP i.MX6 Quad
Architecture	ARM Cortex-A9
PMIC	NXP MMPF0100
Memory	Up to 2GB DDR3
Storage	eMMC (4GB Default)

Connectivity

Network LAN	1x Atheros AR8035 Gigabit LAN
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External Connectors

External Display	1x HDMI
Network	1x RJ45
USB	1x USB 2.0 Host 1x USB 2.0 OTG
CAN Bus	2x Flex CAN version 2.0B compliant (galvanic isolated)
Serial	1x RS-232 (galvanic isolated) 1x RS-232/422/485 (galvanic isolated)
GPIO	4x GPIO (galvanic isolated)
Buttons	1x Boot Select 1x Reset
SD Cardslot	1x MicroSD Card slot

Display

LCD	7 inch widescreen LCD with LED backlight
Resolution	1024 x 600 pixels
Luminance	500 cd/m ²
Maximum Colors	16.7 million
Touchscreen	Projective Capacitive (multitouch)

Video

Video Decode	1080p30 + D1 (Solo/DualLite) 1080p60 H.264 (Quad)
Video Encode	1080p30 H.264 BP/Dual 720p

Audio

Audio Codec	NXP SGTL5000
Speaker	Internal audio speaker connector (stereo) (2W pre-amplified)

Power Specifications

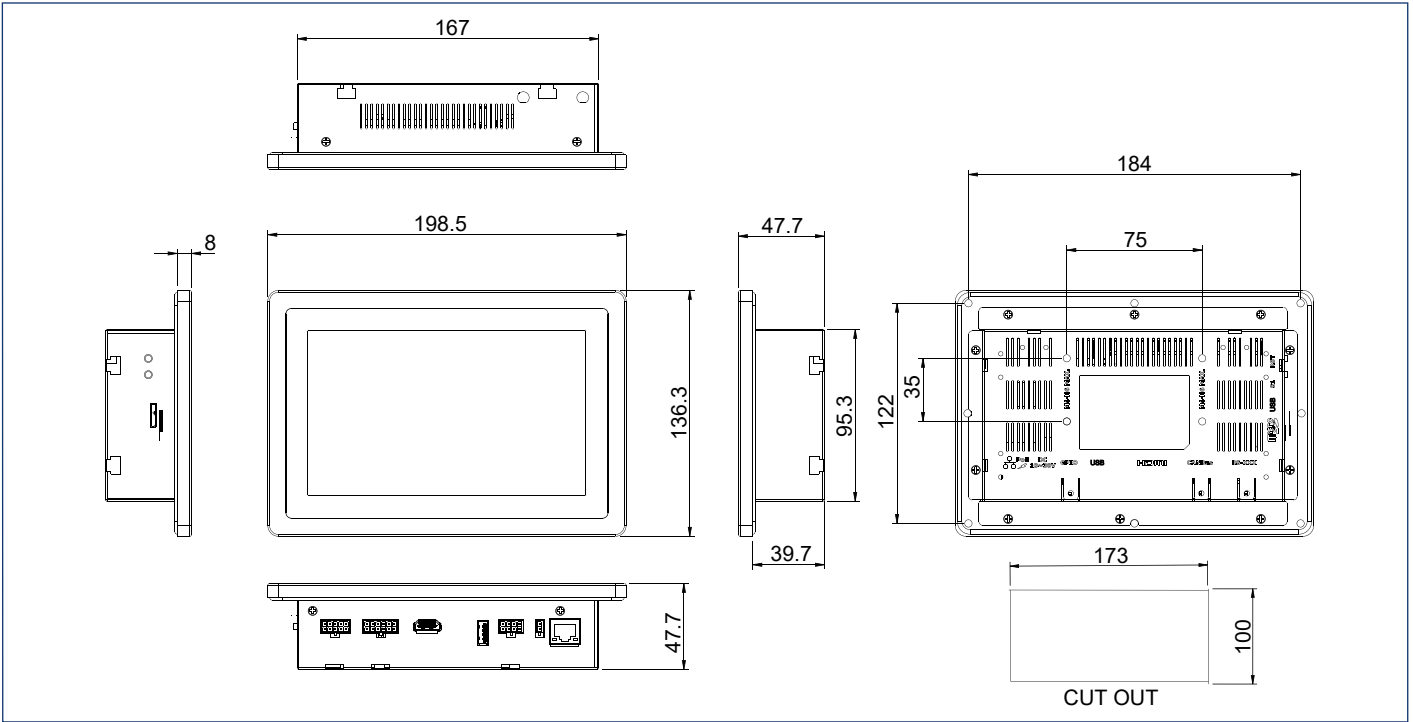
Power Input	9-36V DC
Power over Ethernet	PoE function 802.3at
Power Connector	2-pin Micro-Fit 3.0
Power Consumption	Depending on Configuration

Operation Systems

Standard Support	Linux Yocto Android
Extended Support	Commercial Linux

Dimensions

(units in mm)



Environmental and Mechanical

Enclosure Material	Metal
Front Bezel	Brushed Anodized Aluminium
IP Rating	IP65 Front
Dimensions	198(W) x 137(H) x 48(D) mm
Weight	900 grams
Temperature	Commercial: 0° to +50°C
Relative Humidity	10 to 90 %
MTBF	50 000 Hours
Shock	15G half-sine 11 ms duration
Vibration	1 Grms random 5-500Hz hr/axis
Certification	Compliant with CE / FCC / RoHS / REACH directives

Mounting Options

Rear Mounting	6 mounting clips required (included)
VESA Mounting	35*75 VESA MIS-C Standard (separate purchase)
Surface Mounting	8 mounting holes

Ordering Information

TC0710-P-IMX6x-Rxx-Exx-xxxx-xxxx

	Code	Description
Processor	IMX6S	NXP i.MX6Solo
	IMX6U	NXP i.MX6DualLite
	IMX6Q	NXP i.MX6Quad
Memory	R05	512MB DDR3
	R10	1GB DDR3
	R20	2GB DDR3
Storage	E04	eMMC capacity E04 = 4GB / E16 = 16GB / E32 = 32GB / E64 = 64GB
Custom ID	XXXX	Custom Part number ID for customized Software loader and special component (BOM)