

TC-0700



Main Features

- TC-0700 is an ultra-slim, low power, fanless HMI based on a single/dual 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 10-30V DC power input.
- Available with colorful bezels.



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PROJECT



Specifications

Core System

Processor	NXP i.MX6 Solo NXP i.MX6 DualLite
Architecture	ARM Cortex-A9
PMIC	NXP MMPF0100
Memory	up to 2GB DDR3
Storage	eMMC (4GB Default) MicroSD Cardslot NAND Flash (optional)

Connectivity

Network LAN	1x Atheros AR8035 Gigabit LAN
Wi-Fi/Bluetooth	Qualcomm QCA9377(optional) 802.11 a/b/g/n/ac + BT 5 (BR+EDR+BLE)
Antenna	MHF4 connector (optional)

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 cardslot

Video

Video Decode	1080p30 + D1 (Solo/DualLite)
Video Encode	BP/Dual 720p

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)

Audio

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

Power Specifications

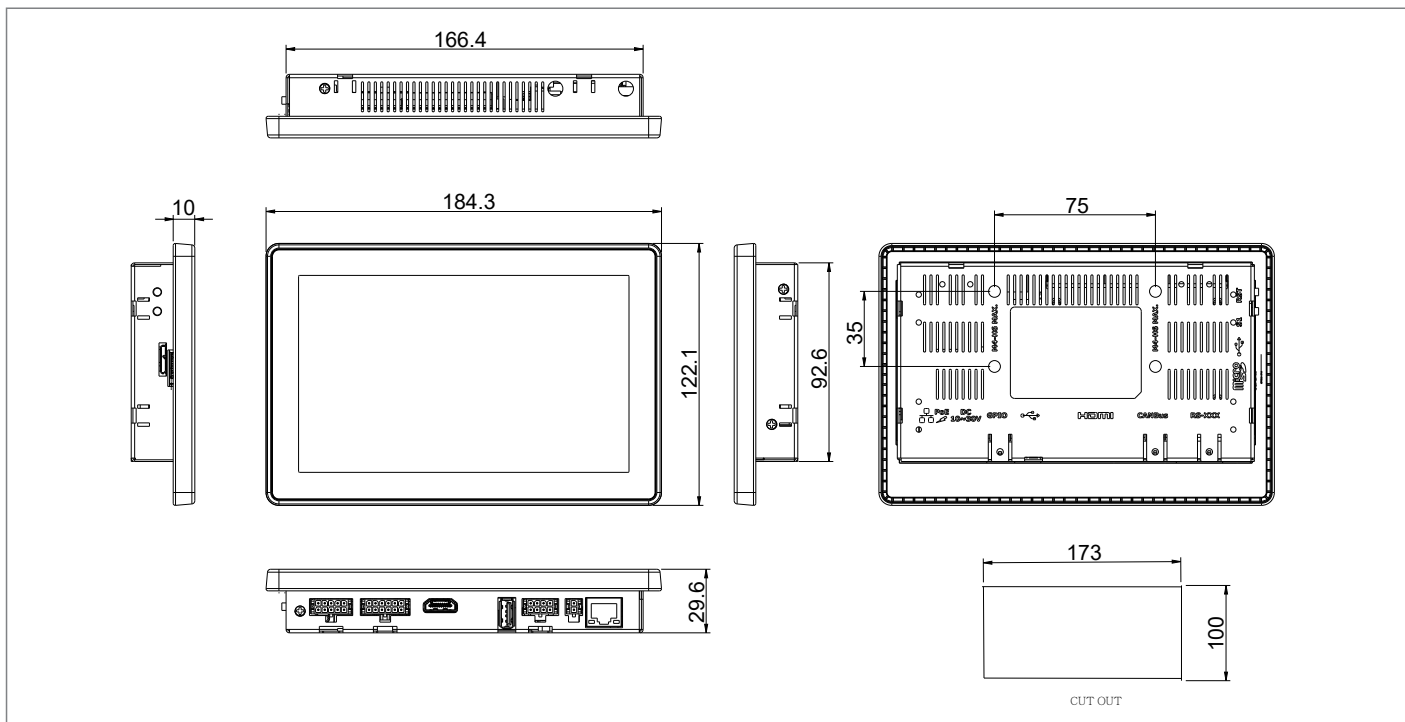
Power Input	10-30V DC
Power over Ethernet	PoE function 802.3at
Power Connector	2-pin Micro-Fit 3.0
Power Consumption	Depending on Configuration

Operation Systems

Standard Support	Linux Yocto Ubuntu Android
Extended Support	Commercial Linux

Dimensions

(units in mm)



Environmental and Mechanical

Enclosure Material	Metal
Front Bezel	Colorful Plastic Frame
Dimensions	184 (W) x 122 (H) x 30 (D) mm
Weight	595 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)

Ordering Information

TC0700-P-IMX6x-Rxx-Exx-xx-xxxx-xxxx

	Code	Description
PMIC	P	NXP MMPF0100
Processor	IMX6S	NXP i.IM6Solo
	IMX6U	NXP i.MX6DualLite
Memory	R05	512MB DDR3
	R10	1GB DDR3
	R20	2GB DDR3
Storage	E04	eMMC 4GB
	E08	eMMC 8GB
	EXX	eMMC other capacity
Color	BK	Black Frame
	BL	Blue Frame
	GN	Green Frame
	GY	Grey Frame
	OR	Orange Frame
	RD	Red Frame
	WT	Ivory White Frame
	YL	Yellow Frame
Wi-Fi / Bluetooth	-	-
	9377	Qualcomm QCA9377 802.11a/b/g/n/ac (2.4 + 5GHz) + Bluetooth 5
Custom ID	XXXX	Custom Part number ID for customized Software loader and special component (BOM)

* Feel free to contact us for customization requests.

