

# TEK-0700-IMX6UL



- The TEP-0700-IMX6UL is a cost-optimized general industrial applications HMI based on an NXP i.MX6UL core Cortex-A7™ processor.
- The TEP-0700-IMX6UL features a 7-inch widescreen ratio multitouch PCAP touch screen with LED backlight and brushed aluminum front bezel.
- 4 RS-232, 2 CAN, 12 GPIO, 2 Fast Ethernet and USB interfaces.
- Orderable with single voltage 12VDC, wide voltage 9 - 36VDC or 802.3at PoE (power over ethernet) options.
- Linux and Yocto runtime images and full source code available.

## Specifications



### Core System

|                 |                    |
|-----------------|--------------------|
| Processor       | NXP i.MX6 UL       |
| Processor Speed | 528MHz             |
| Architecture    | ARM Cortex-A7      |
| PMIC            | NXP PF3000         |
| Memory          | Up to 1GB DDR3L    |
| Storage         | eMMC (4GB Default) |

### Connectivity

|                     |  |
|---------------------|--|
| Network LAN         | 2x Micrel KSZ8081RNBCA Fast Ethernet LAN |
| Power over Ethernet | PoE function 802.3at (optional)          |

### External Connectors

|             |  |
|-------------|--|
| Network     | 2x RJ45                                    |
| USB         | 1x USB 2.0 Host<br>1x USB 2.0 OTG (Type-C) |
| CAN Bus     | 2x Flex CAN version 2.0B compliant         |
| Serial      | 4x RS-232                                  |
| GPIO        | 12x GPIO                                   |
| Buttons     | 1x Boot Select<br>1x Reset                 |
| Indicators  | 1x Programmable LED                        |
| SD Cardslot | 1x MicroSD Card slot                       |

### Display

|                |  |
|----------------|--|
| LCD            | 7 inch widescreen LCD with LED backlight |
| Resolution     | 800 x 480 pixels                         |
| Luminance      | 300 cd/m <sup>2</sup>                    |
| Maximum Colors | 16.7 million                             |
| Touchscreen    | Projective Capacitive (multitouch)       |

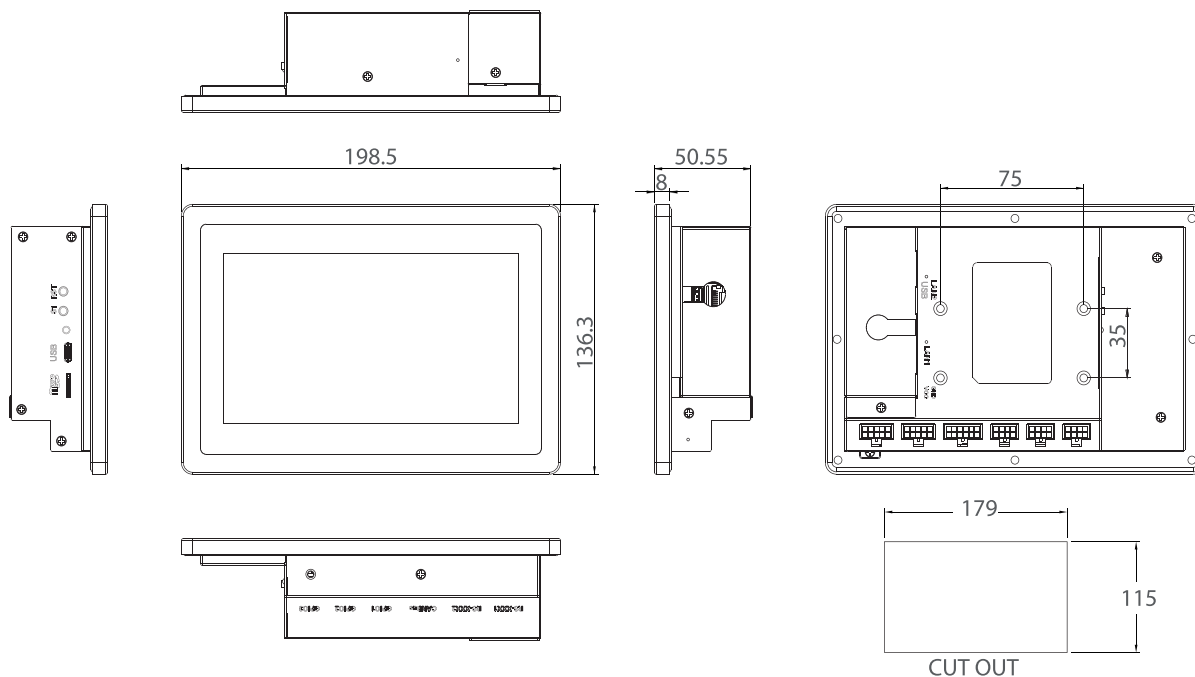
### Power Specifications

|                     |                                    |
|---------------------|------------------------------------|
| Power Input         | 12 VDC<br>9-36V (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<br>Yocto   |
| Extended Support | Commercial Linux |

**Dimensions** (units in mm)



**Environmental and Mechanical**

|                    |   |
|--------------------|---|
| Enclosure Material | Metal   |
| Front Bezel        | Brushed Anodized Aluminium                        |
| IP Rating          | IP65 Front  |
| Dimensions         | 150 (W) x 105 (H) x 42 (D) mm                     |
| Weight             | 550 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 |

**Modular Expansion Options**

|                        |  |
|------------------------|--|
| Power Expansion Module | TXB-P1-1030V-LAN1 (8-36V 5A)<br>TXB-P1-12V-LAN1 (12V 3A)<br>TXB-P1-12V-POE1 (12V 3A)<br>or (PoE 802.3at) |
|------------------------|--|

**Mounting Options**

|                  |  |
|------------------|--|
| VESA Mounting    | 35*75 VESA MIS C. Standard (separate purchase) |
| Surface Mounting | 8 mounting holes                               |

**Order Information**

**TEP0700-IMX6Gx-05-Rxx-Exx-Lxxx-xxxx**

|                 | Code  | Description  |
|-----------------|-------|--|
| Processor       | IMX6G | NXP i.MX6 UltraLite  |
| Processor Speed | 05    | 528MHz   |
| Memory          | R05   | 512MB DDR3L  |
| Storage         | E04   | eMMC capacity<br>E04 = 4GB / E16 = 16GB / E32 = 32GB / E64 = 64GB                |
| Power Expansion | L112  | TXB-P1-12V-LAN1 (12V 3A)   |
|                 | L130  | TXB-P1-1030V-LAN1 (9-36V 5A)   |
|                 | LPOE  | TXB-P1-12V-POE1 (12V 3A) or (PoE 802.3at)  |
| Custom ID       | XXXX  | Custom Part number ID for customized Software loader and special component (BOM) |