



**triton
TX**

development kit running Linux. Source code and toolchain are supplied, along with a configured virtual machine for development.

The Mainboard-7 includes connectors for the I/O provided by the iMX6 UltraLite processor and TRITON-TX6UL, including SD/MMC card socket, 2x RS232, RS485, CANbus, USB-OTG and USB-Host connectors, Hirose LVDS, and an Ethernet connector. In addition, there is an audio codec with 3.5mm headphone jack connector.

The board is powered via USB, or an external supply source (supplied).

To facilitate creation of a production baseboard, full schematics are provided for the Mainboard-7. Alternative development

systems including StarterKit-5 and TRITON-TXFB are suitable for use with TRITON-TX6UL - please see our website for details.

We offer a fixed price custom baseboard design and production service, as well as off-the shelf baseboards such as TRITON-TXFB for customers with tight time-to-market constraints who wish to focus their efforts on application development.



TRITON-TX6UL Feature:	Support	Details
Processor	i.MX6 UltraLite	Freescale MCIMX6G2 Industrial
CPU	ARM Cortex-A7	Single Core
Processor clock max (MHz)	528	
RAM (MB)	256	DDR3
NAND Flash (MB)	128/4GB	eMMC version has reduced temp spec.
Coprocessor	-	Use TRITON-TX6S for acceleration
Floating Point	y	NEON Vector Floating Point
UART (RS-232)	8	
Ethernet 10/100 BaseT	2	one PHY on module. IEEE1588
I2C Interface	2	
LCD controller	1366x768	24-bit parallel, dual LVDS*
Supplied touch screen	640x480**	Cap. touch, other sizes on request
SSP (I2S, AC'97)	1	
CAN	2	
SD card / SDIO (4-bit)	1	
1-wire interface	-	
USB 2.0 Host	1	
USB 2.0 OTG	1	
SPI	2	
PWM controller	5	
Keypad	4x4	
JTAG	1	
Analog audio	1**	controller on baseboard
Touch screen interface	1**	capacitive via I2C
RTC	1	
Camera Interface	1	
Temp Range	-40C/+85C	-25C/+85C for eMMC version
Dimensions	26mm x 68mm	SODIMM200

*optional **on baseboard