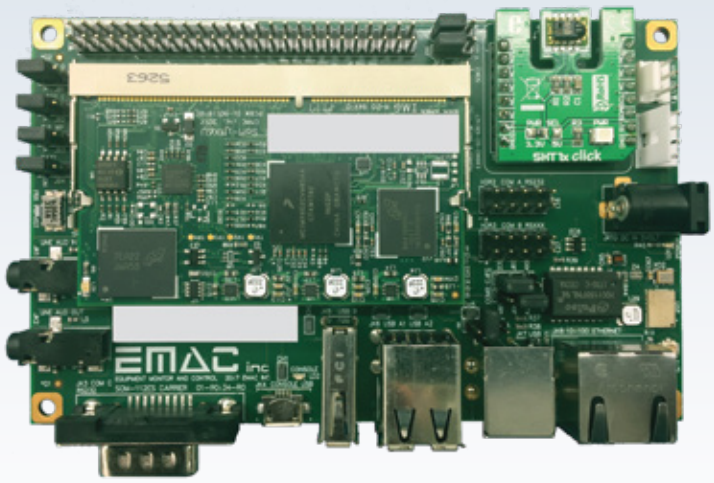
DEV-IOT6U

IMX6 IIOT Development Kit



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Features

- Freescale/NXP i.MX 6UltraLite
- Cortex A7 528MHz Processor Speed, 128MB RAM
- 4GB eMMC Flash, 16MB Serial Data Flash, micro SD
- 8x MPIO Lines, Multi Purpose I/O Lines
- 2x RS232 ports, 1x USB to Serial & 1x RS232/485 Port
- 3 USB Host ports & 1 USB Device Port
- 1x 10/100 BaseT Ethernet, Wifi, & Bluetooth
- APM Sleepmode 3.5 mA

Specifications (Actual I/O Availability is SoM Dependent)

Processor	Freescale/NXP i.MX6 UltraLite (MCIMX6G1) Cortex A7 528 MHz
Memory	128MB of LP DDR2 RAM, 4GB of eMMC Flash, 1x micro SD card, 16MB of Serial Data Flash
I/O	14x Processor General Purpose I/O (GPIO) Lines; Up to 8x more GPIOs Optional
	4x Serial Ports (2xRS232, 1xRS232/422/485, 1x USB Device to Serial Console)
	3x USB 2.0 Hosts, 1 USB Device, 1x USB Device to Serial Console
	1x CAN 2.0 Port
	Audio In/Out
Analog	4x Channels of A/D (from SoM)
	Multi-I/O up to 8x more, 12-bit A/D or 8x GPIO
	1x 12S Audio Port with Line In/Out
Expansion	MikroBus Click™ Expansion Socket
	50-pin Micro Processor I/O Header
Networking	Wifi (802.11b/g/n)
	Bluetooth (v4.0)
	10/100 BaseT Ethernet with onboard Magnetics and RJ45
Dimensions	3' x 4.75' (77mm x 23mm x 25 mm)
Power Req.	5V at 500 mA with SoM-IMX6U at full load
Environment	0° to 60°C [-40° to +85°C optional]

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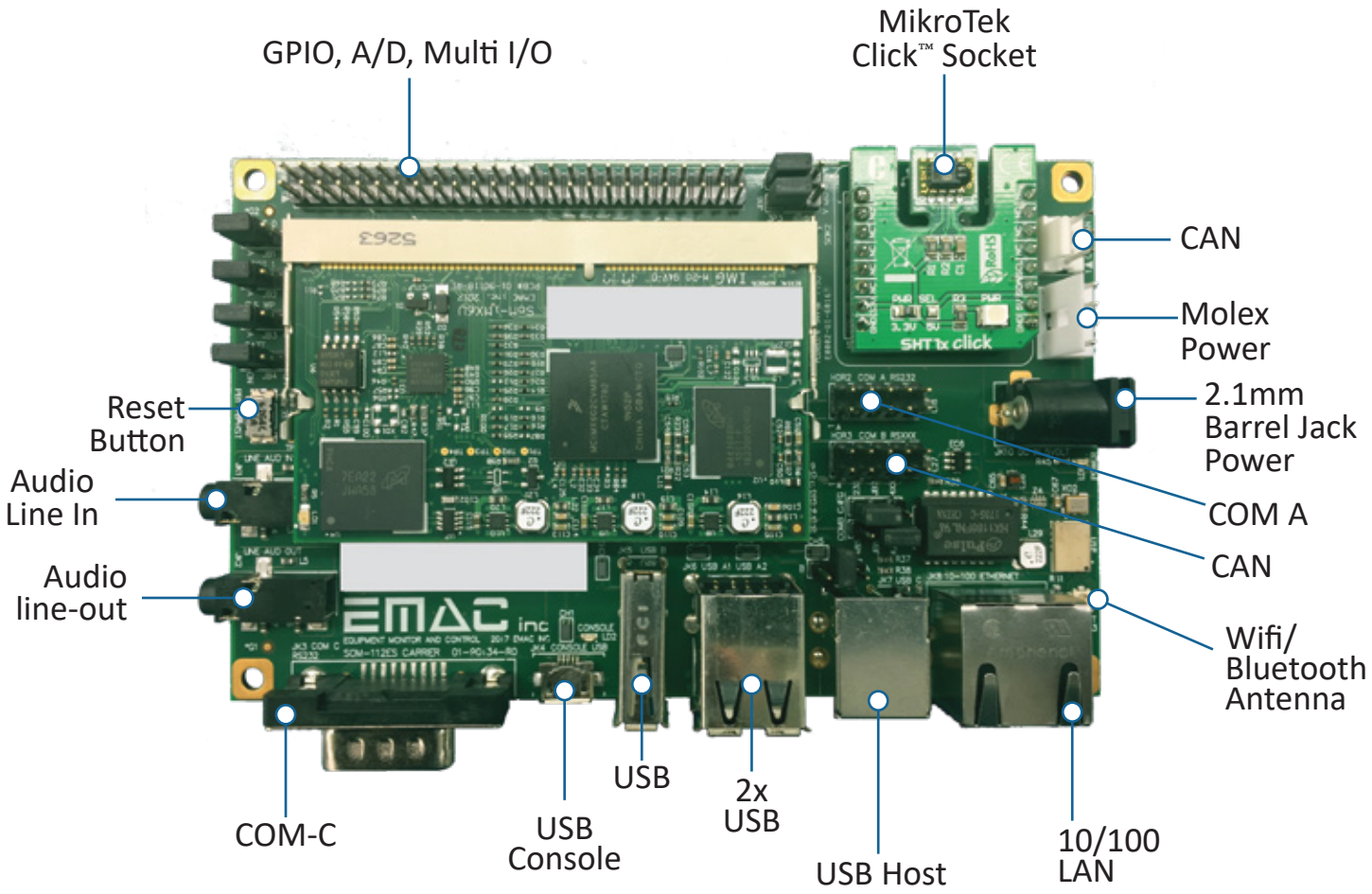

Product Numbers

PRODUCT #	DESCRIPTION
DEV-IOT6U-000	Industrial IoT Development Kit IMX6U-112 with SOM-IMX6U module and SOM-112ES Carrier board.

Packing List

PRODUCT #	POWER SUPPLY
CAB-35-001-1	3x 10 pin to DB9 Serial cable
CAB-40-015-R	USB A male to micro male USB debug cable
CAB-45-001-1	Ethernet Cable RJ45/RJ45 7'
PER-MIS-00050	2.4GHz Wifi/Bluetooth antenna
PER-PWR-00032	5V power supply Multi plug
SoM-IMX6U	The SoM-iMX6U is based on the Freescale/NXP i.MX 6UltraLite Cortex A7 processor and has ARM Sleep Mode of 3.5mA.
SoM-112ES	The SoM-112ES is a compact, low-power SoM Carrier/Socket board with WiFi and Bluetooth connectivity onboard, and MikroBUS
PER-BUS-000PR0	MIKROE-1824 MikroElektronika Click™ Rotary Encoder Sensor Board