Colibri iMX6ULL

Colibri iMX6ULL is the first Toradex's Computer Module offering on-board Wi-Fi and Bluetooth. The Colibri iMX6ULL is a SODIMM-sized SoM based on NXP i.MX 6ULL application processor, featuring a power-efficient Arm® Cortex-A7 core.

Datasheet Block Diagram Technical Details Pinout Designer Tool Quickstart Toradex Community

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Colibri Product Family



Colibri iMX6ULL Overview

Buy Now

Highlights



Powered by NXP i.MX 6ULL



Power-optimized



High-performance, pre-certified Wi-Fi and Bluetooth



Toradex Colibri Computer Module Family

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Toradex offers free support and maintenance for Embedded Linux on the NXP i.MX 6ULL processor based Colibri iMX6ULL SoM. This allows system designers to focus on the application instead of focusing on the OS and low-level device drivers.

Buy Now

To get your product to market fast, with low risk and low engineering costs, you need more than just a System on Module with a stable operating system or BSP. We understand this, which is why we at Toradex are collaborating with a wide range of partners to make your life easier. Here are a few highlights. To find more, browse our Developer Page and take a look at our Partner Network.

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Toradex Easy Installer

Toradex Easy Installer allows you to install an OS in one click. I
comes preinstalled from the factory, so all you need to do is tu
your on Colibri iMX6ULL and choose an OS!

Learn More



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Easy-to-use Rich Graphical User Interfaces

Colibri iMX6ULL does not have a GPU. Nevertheless, choosing a GUI framework that supports optimized graphics on the CPU is a great choice for a modern UI with moderate level of animations. Toradex partners closely with leading GUI technology providers to simplify the development process and make sure that hardware resources are utilized effectively.

Buy Now

Qt Framework

Qt is available on Toradex Easy Installer and as Debian containers for Torizon, making it easy to get started with Qt on any embedded device.

Get started with Qt

TotalCross

TotalCross is an open-source SDK for GUI creation that lets you develop beautiful apps in Java or Kotlin.

Get started with Totalcross

Industrial Automation

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CODESYS PLC IEC 61131-3

The Colibri iMX6ULL is a good fit for industrial automation tasks. CODESYS allows you to develop easily customized PLCs powered by a proven, long-lived software solution.

Get started with CODESYS on Toradex SoMs

OPC UA is a standard
automation. The stack
platform-independent
iM

Watch our

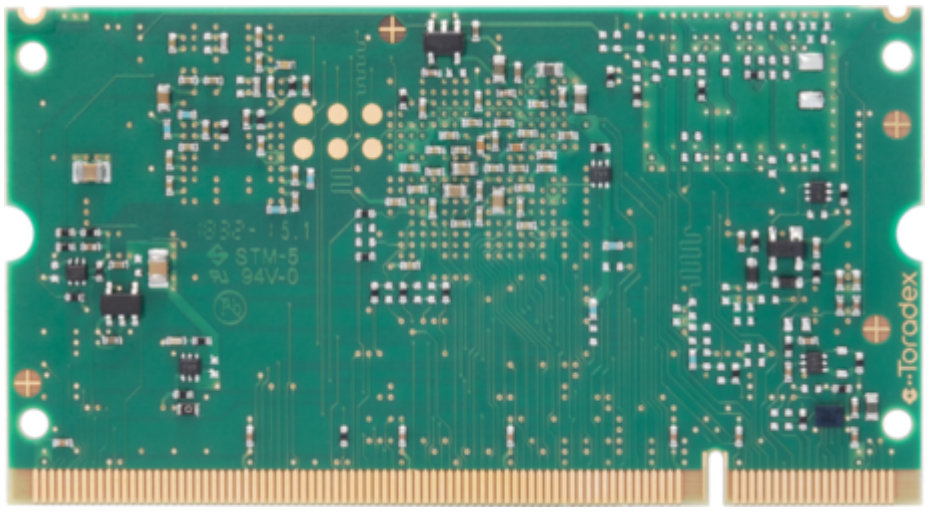
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FRONT



BACK

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	NEW Limited stock **Colibri iMX6ULL 1GB IT** PN: 0062 Buy Now	In stock **Colibri iMX6ULL 512MB Wi-Fi / Bluetooth IT** PN: 0040 Buy Now	In stock **Colibri iMX6ULL 512MB Wi-Fi / Bluetooth** PN: 0045 Buy Now	In stock **Colibri iMX6ULL 512MB IT** PN: 0044 Buy Now	In stock **Colibri iMX6ULL 256MB** PN: 0036 Buy Now

CPU Details +

Memory +

Connectivity +

Multimedia +

Operating System +

Physical +

Intended Use, Pricing, Availability +

Notes

(1) The Wi-Fi component on the module is limited to an operating temperature range of -30° to +85°C. As this component is not deemed boot-critical, the Colibri iMX6ULL 512MB WB IT is still listed as an Industrial Temperature product.

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Carrier Boards

The carrier board provides the necessary signal and power levels to the CoM. It also houses the multimedia interfaces, such as USB, Ethernet, UART and HDM

					
	Colibri Evaluation Board	**Iris Carrier Board**	**Viola Carrier Board**	**Aster Carrier Board**	**Colibri Partner Carrier Boards**
	Learn More Datasheet	Learn More Datasheet	Learn More Datasheet	Learn More Datasheet	Learn More

Connectivity +

Input / Output +

Multimedia +

Others Buy Now

Physical +

Intended Use, Pricing, Availability +

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Year 2032

Q1'22	Q2'22	Q

0062 Colibri iMX6ULL 1GB IT

0040 Colibri iMX6ULL 512MB WB IT

0045 Colibri iMX6ULL 512MB WB

0044 Colibri iMX6ULL 512MB IT

0036 Colibri iMX6ULL 256MB

In Development | Early access product | Sample Product
Volume Product Candidate | Volume Product

Embedded Linux Support Status

Latest Kernel	5.4	Latest Yocto Project	3.1 / Dunfell

Ready to use

- ✓ Parallel RGB display
- ✓ USB Host
- ✓ SDIO / SD card
- ✓ Analog input
- ✓ PWM
- ✓ I2C
- ✓ DVFS
- ✓ RTC
- ✓ On-board Bluetooth
- ✓ Ethernet
- ✓ USB Client
- ✓ Resistive Touch 4-wire
- ✓ UART
- ✓ CAN
- ✓ SPI
- ✓ Watchdog
- ✓ Suspend / Resume
- ✓ On-board Wi-Fi
- ✓ RS485

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5 Modules, 5 Carrier Boards, 9 Accessories



PN: 00621100

Colibri iMX6ULL 1GB IT

Samp

NXP® i.MX 6ULL, 1x Arm Cortex™-A7, 800 MHz, 1GB DDR3L (16 Bit), 4G
10/100 Mbit with IEEE 1588 (+2nd RMII) Ethernet, -40° to 85° C Temp. F
Availability until 2032

Unit Price	Unit Price
1-99	€62.50
100-249	€60.00
250-499	€56.25
500-999	€53.75
>999	RFQ

Currently low stock level. More coming soon. Please contact us for details.



PN: 00401100

Colibri iMX6ULL 512MB Wi-Fi / Bluetooth IT

Volume Product

NXP® i.MX 6ULL, 1x Arm Cortex™-A7, 800 MHz, 512MB DDR3L (16 Bit), 512MB SLC NAND, 10/100 Mbit with IEEE 1588 (+2nd RMII) Ethernet, -40° to +85° C(1) Temp. Range, Availability until 2032

Unit Price	Unit Price
1-99	€73.75
100-249	€70.80
250-499	€66.40
500-999	€63.45
>999	RFQ

(1) The Wi-Fi component on the module is limited to an operating temperature range of -30° to +85°C. As this component is not deemed boot-critical, the Colibri iMX6ULL 512MB WB IT is still listed as an Industrial Temperature product.



PN: 00451100

Colibri iMX6ULL 512MB Wi-Fi / Bluetooth

Volume Product

NXP® i.MX 6ULL, 1x Arm Cortex™-A7, 900 MHz, 512MB DDR3L (16 Bit), 512MB SLC NAND, 10/100 Mbit with IEEE 1588 (+2nd RMII) Ethernet, 0° to 70° C Temp. Range, Availability until 2032

Unit Price	Unit Price
1-99	€63.65

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HAVE A QUESTION?

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100-249	€61.10
250-499	€57.30
500-999	€54.75
>999	RFQ

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V1.1A



PN: 00441100

Colibri iMX6ULL 512MB IT

Volur

NXP® i.MX 6ULL, 1x Arm Cortex™-A7, 800 MHz, 512MB DDR3L (16 Bit), NAND, 10/100 Mbit with IEEE 1588 (+2nd RMII) Ethernet, -40° to 85° C T
Availability until 2032

Unit Price	Unit Price
1-99	€53.40
100-249	€51.25
250-499	€48.05
500-999	€45.90
>999	RFQ

In stock

1

V1.1A



PN: 00361100

Colibri iMX6ULL 256MB

Volume Product

Buy Now

NXP® i.MX 6ULL, 1x Arm Cortex™-A7, 528 MHz, 256MB DDR3L (16 Bit), 512MB SLC NAND, 10/100 Mbit with IEEE 1588 (+2nd RMII) Ethernet, 0° to 70° C Temp. Range, Availability until 2032

Unit Price	Unit Price
1-99	€42.50
100-249	€40.80
250-499	€38.25
500-999	€36.55
>999	RFQ

In stock

1

V3.2B



PN: 01013201

Colibri Evaluation Board

Sample Product

Connectivity: USB 2.0: 4x Host, 1x OTG/Client, 10/100 Mbit Ethernet, 4x I2C, 4x SPI, 4x PWM, 4x ADC, 1x CAN, 6x Switches, 4x LEDs, up to 158 GPIOs

Multimedia: Audio out: 1x (Stereo), Audio in: 1x (Stereo), 1x Camera Parallel Interface, 4/5-wire Resistive Touch

Physical: 7-27V DC Supply Voltage, 5V 5A, 3.3V 5A On-Board Power Supplies, Size: 200 x 200 mm

Limited stock

1

Unit Price	Unit Price

HAVE A QUESTION?

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>0	€218.00

Currently low stock level. More coming soon. Please contact us for details.

V2.0A



PN: 01352000

Iris Carrier Board V2.0A — Volur

Small form-factor Pico-ITX Colibri Arm Computer Module family Carrier

Connectivity: USB 2.0: 1x Host/ 1x OTG, 10/100 Mbit Ethernet, 1x I2C, 1 PWM, 4x ADC, up to 26 GPIOs

Multimedia: Audio out: 1x (Stereo), Audio in: 1x (Stereo), 4/5-wire Resis

Physical: 6-27V DC Supply Voltage, 5V 5A, 3.3V 5A On-Board Power Su 100 x 72 mm

Unit Price	Unit Price
1-99	€65.90
100-249	€63.30
250-499	€59.35
500-999	€56.70
>999	RFQ

Buy Now

V1.2B



PN: 01371201

Viola Carrier Board — Volume Product

Connectivity: USB 2.0: 2x Host, 1x Client (Shared), 10/100 Mbit Ethernet, 1x I2C, 1x SPI, 4x PWM, 4x ADC, 1x (Available with Colibri VFxx and iMX) CAN, up to 35 GPIOs

Multimedia: 4-wire Resistive Touch

Physical: 5V DC +/- 5% Supply Voltage, 5V (External), 3.3V 3A On-Board Power Supplies, Size: 74 x 74 mm

Unit Price	Unit Price
1-99	€30.65
100-249	€29.40
250-499	€27.60
500-999	€26.35
>999	RFQ

Currently low stock level. More coming soon. Please contact us for details.

Limited stock

1

V1.2B PLUS



PN: 01421201

Viola Plus Carrier Board — Volume Product

Connectivity: USB 2.0: 2x Host, 1x Client (Shared), 10/100 Mbit Ethernet, 1x I2C, 1x SPI, 4x PWM, 4x ADC, 1x (Available with Colibri VFxx and iMX) CAN, up to 35 GPIOs

Multimedia: Audio out: 1x (Stereo), Audio in: 1x (Stereo), 1x Camera

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Interface, 4-wire Resistive Touch

Physical: 5V DC +/- 5% Supply Voltage, 5V (External), 3.3V 3A On-Board Supplies, Size: 74 x 74 mm

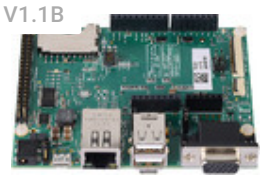
Unit Price	Unit Price
1-99	€36.25
100-249	€34.80
250-499	€32.65
500-999	€31.20
>999	RFQ

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V1.1B



PN: 01431101

Aster Carrier Board — Sample Product

Small form-factor with header compatible with Arduino Uno and Raspberry Pi (RPi) maker boards

Connectivity: USB 2.0: 2x Host, 1x Client (Shared), 10/100 Mbit Ethernet, 1x I2C, 1x SPI, 4x PWM, 4x ADC, 1x (Available with Colibri VFxx and iMX) CAN, up to 3x LEDs, up to 39 GPIOs

Multimedia: Audio out: 1x (Stereo), Audio in: 1x (Stereo), 1x Camera Parallel Interface, 4-wire Resistive Touch

Physical: 5V DC +/- 5% Supply Voltage, 3.3V 3A On-Board Power Supplies, Size: 100 x 80 mm

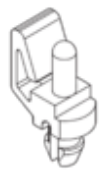
Unit Price	Unit Price
>0	€59.00

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1 Buy Now

V2.0A



PN: 01112000

Colibri Fasteners — Volume Product

Fasteners for Colibri modules

1 Fastener bag contains 100 Fasteners.

Unit Price	Unit Price
>0	€22.75

In stock

1

V1.0B



PN: 12131001

Resistive Touch Display 7" Parallel — Sample Product

Resistive Touch Displays it for Apalis & Colibri modules

Touch: 4-Wire Resistive Touch. 40 pin FFC cable (250mm) to connect it with a Carrier Board. No special drivers required. -20° to +70° C Temp, Rang… 100.0 x 13.0 mm.

In stock

HAVE A QUESTION?

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Unit Price	Unit Price
>0	€90.00

V1.0B



PN: 12111001

Capacitive Touch Display 7" Parallel

Samp

Capacitive Touch Displays for Apalis & Colibri modules

40 pin and 10 pin FFC cable (250mm) to connect it with a Carrier Board driver. -20° to +70° C Temp, Range. Size: 173 x 112 x 13 mm.

Unit Price	Unit Price
>0	€109.00

V1.0A



PN: 21041000

LM816 USB WiFi

Sample Product

LM816 USB WiFi for Apalis and Colibri Family

Plug and Play (Windows Compact Embedded 6/7 compatible). BPSK, QPSK, 16 QAM, 64 QAM, DBPSK, DQPSK, and CCK modulation schemes. WEP, TKIP, and AES, WPA, WPA2 hardware encryption Schemes. Can be setup as a ad-hoc network via peer to peer communications. -10°C to +60°C Temp, Range. Size: 17 x 15 x 8 mm.

Unit Price	Unit Price
1-99	€22.50
100-249	€18.75
250-499	€17.25
>499	RFQ

In stock

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1

V1.0A



PN: 21541000

Dual-Band Wi-Fi/Bluetooth PCB Antenna 100mm

Volume Product

Cable length: 100mm. Frequency bands: 2.4 GHz and 5 GHz (dual-band). Manufacturer: Unictron. Reference: AA222 (H2B1PD1A1C385L), Range. Size: 40.0 x 6.0 x 0.5 mm.

Unit Price	Unit Price
1-99	€4.50
100-249	€3.40
250-499	€2.95
500-999	€2.60
>999	RFQ

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V1.0A



PN: 21511000

Dual-Band Wi-Fi/Bluetooth Dipole Antenna

Volur

Frequency bands: 2.4 GHz and 5 GHz (dual-band). Manufacturer: Chanç
Reference: DA-2458-02, Range. Size: 106.0 x 10.0 (max. diameter) mm.

Unit Price	Unit Price
1-99	€5.40
100-249	€4.05
250-499	€3.55
500-999	€3.15
>999	RFQ



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V1.0A



PN: 21521000

Cable for Wi-Fi/Bluetooth Antennas 100mm

Volume Product

Cable length: 100mm.

Unit Price	Unit Price
1-99	€4.50
100-249	€3.40
250-499	€2.95
500-999	€2.60
>999	RFQ

In stock

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V1.0A



PN: 21531000

Cable for Wi-Fi/Bluetooth Antennas 200mm

Volume Product

Cable length: 200mm.

Unit Price	Unit Price
1-99	€5.40
100-249	€4.05
250-499	€3.55
500-999	€3.15
>999	RFQ

In stock

1

V1.0A



PN: 21551000

Cable for Wi-Fi/Bluetooth Antennas 200mm Outdoor (IP67)

Volume Product

Cable length: 200mm. Suitable for outdoor-usage (IP67).

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Unit Price	Unit Price
1-99	€7.20
100-249	€5.40
250-499	€4.70
500-999	€4.15
>999	RFQ



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