BL i.MX8M MINI Baseboard with High-Performance Processor
Quad Core 1.6 GHz

- Embedded application and control processor
- 4x Arm® Cortex®-A53 @1.6 GHz and 1x Arm® Cortex®-M4 @400 MHz with various interface
- Pre-installed operating system incl. all drivers (Embedded Linux Board Support Package)
BL i.MX8M MINI

Reinventing ourselves - that's what we at Kontron Electronics succeeded in doing with the new SoM SL i.MX8M Mini. The compact modular size of the SoM offers maximum performance and complexity on a footprint of just 30 mm x 30 mm.

The new platform is the perfect solution for sophisticated 3D graphics applications and computing-intensive system architectures. In addition to an attractive price, the i.MX8M Mini processor boasts an extremely high-performing application processor. The system features a 4x Arm® Cortex®-A53 microprocessor, a clock frequency of 1.6 GHz and DDR4 memory technology, as well as extensive configuration of powerful interfaces.

With the combination of SoM and baseboard, there's nothing to hold your projects back. This high-powered and autonomous platform is versatile in use and represents a secure investment for your future products.

CLIENT BENEFITS

› Quick and easy applicability of complex processor solutions
› Custom add-on functions via expansion plug-ins
› Full Linux toolchain available free of charge
› Short Time to Market

APPLICATIONS

› IoT/Industrie 4.0
› Medical technology
› Communication
› High-end touch display
› Edge Computing

TECHNICAL DATA

<table>
<thead>
<tr>
<th>FUNCTION</th>
<th>STANDARD</th>
<th>OPTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>MICROPROCESSOR</td>
<td>4x Arm® Cortex®-A53 @1.6 GHz, 1x Arm® Cortex®-M4 @400 MHz, 2D GPU and 3D GPU</td>
<td>up to 4 GByte</td>
</tr>
<tr>
<td>MEMORY SoM</td>
<td>1 GByte</td>
<td>up to 128 GByte</td>
</tr>
<tr>
<td>SERIAL</td>
<td>2 MByte</td>
<td></td>
</tr>
<tr>
<td>COMMUNICATION</td>
<td>1x 1 Gbit/s, 1x 10/100 Mbit/s, 2x 2.0 Host, 1x 2.0 OTG, 4x DIO (24 V/up to 800 mA)</td>
<td></td>
</tr>
<tr>
<td>SERIAL</td>
<td>1x RS232, 1x RS485</td>
<td></td>
</tr>
<tr>
<td>DISPLAY / TOUCH</td>
<td>1x HDMI, 1x LVDS, up to 1920 x 1080 @60fps 1x I²C, 1x USB</td>
<td></td>
</tr>
<tr>
<td>OTHER</td>
<td>24 V DC ±20 %, Linux running &lt; 2 W</td>
<td></td>
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<tr>
<td>SECURITY</td>
<td>HAB Secure Boot, TrustZone, True RNG, RSA up to 6096, AES-128/192/256, 3DES, ARC4, MD-5, SHA up to 256, ECC, Secure JTAG</td>
<td></td>
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Your contact

Kontron Electronics GmbH
Kantstraße 10
72663 Großbettlingen, Germany
Tel.: + 49 7022 4057-0
Fax: + 49 7022 4057-22
info@kontron-electronics.de
www.kontron-electronics.de

Global Headquarters

Kontron S&T AG
Lise-Meitner-Str. 3-5
86156 Augsburg, Germany
Tel.: + 49 821 4086 0
Fax: + 49 821 4086 111
info@kontron.com
www.kontron.com