mITX–APL

▼

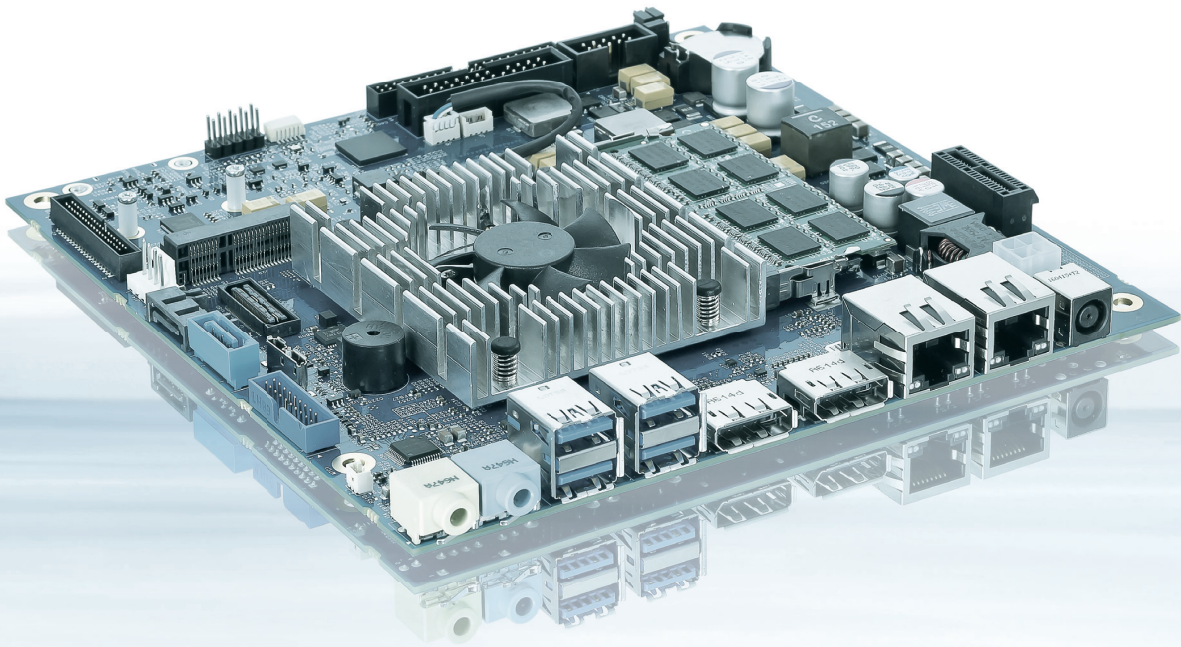## EMBEDDED mITX MOTHERBOARD WITH INTEL® ATOM™ E39xx SERIES AND Celeron® N3350 CPUs

▶ Intel® Atom™ E39xx and N3350 SOC (2 or 4 cores), TDP: 6-12 W
▶ LVDS 24Bit dual channel and display port 1.2
▶ SO-DIMM socket DDR3L-1867 memory (up to 8 GByte)
▶ TPM2.0 and hardware security device to protect applications and licensing
▶ mPCIe full size, CAN Bus and eMMC support

POSSIBILITIES START HERE **kontron**
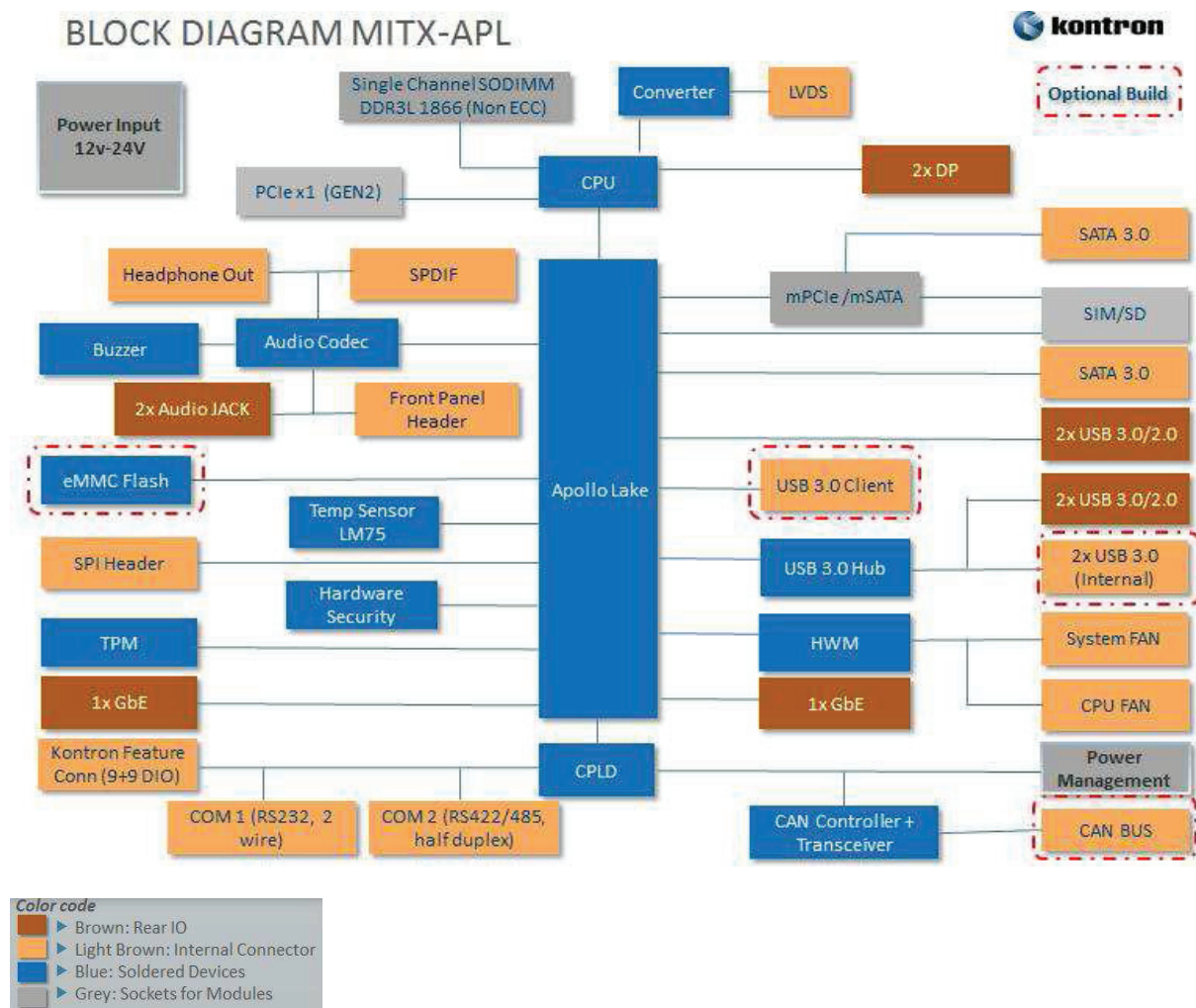
mITX-APL

TYPICAL APPLICATIONS

▶ POS/POI: Higher Graphics and CPU core performance, Low power, multi display support

▶ Medical/Connectivity: Higher Graphics and CPU core performance, longevity

▶ Industrial Automation: Wide range of I/Os, compact size, longevity

▶ Digital signage: Multi display support, low power, wide range of I/Os

▶ Future-oriented Devices: Display Port and LVDS, low power, compact size

The mITX-APL is part of the Security Solution Product Line the motherboard is prepared for Application Protection, License Creation, Delivery, Management and Tracking, Implementation of license models as well as the assignment of privileges and access levels.

BLOCK DIAGRAM MITX-APL

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Color code
▶ Brown: Rear IO
▶ Light Brown: Internal Connector
▶ Blue: Soldered Devices
▶ Grey: Sockets for Modules

▶ TECHNICAL INFORMATION

PROCESSOR	Intel® Atom™ E39xx series and Celeron® N3350
MEMORY	1x DDR3L 1.35 V SODIMM 1867 MHz (up to 8 GByte)
GRAPHICS INTERFACE	3x Independent Displays (DP/LVDS)
SPECIAL	TPM, Hardware Security, eMMC, CAN Bus
SATA PORTS	2x SATA Gen 3.0
MPCIE SLOT	1x (Full size)
SERIAL PORTS	1 x RS232 (Internal); 1 x RS422/RS485 Half duplex (Internal)
LAN PORTS	2x RJ-45 LAN Port
USB PORTS	4x USB 3.0/2.0 (Rear), 2x USB 2.0 (Internal)
AUDIO	HD Analog audio interface (Line-In, Line-Out, Mic-In, SPDIF)
POWER SUPPLY	Single supply 12-24 V DC (External) + ATX 12 V 4 pin (Internal)
MTBF	tbd.
SAFETY	IEC 60950-1: 2005, UL 60950-1, CSA 60950-1
COOLING SOLUTIONS	Passive and active cooling solutions
OPERATING TEMPERATURE	0 °C to 60 °C
REGULATORY	Comply with Emission: EN55022, Immunity EN55022, RoHS
DIMENSIONS	Thin Mini ITX, 170 x 170 mm
OPERATING SYSTEMS	Win10, Win10 IoT, Linux
BIOS	AMI Aptio V UEFI
SUPPORTED MODULES	mITX-APL 46010-XXXX-XX-X

▶ CORPORATE OFFICES

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