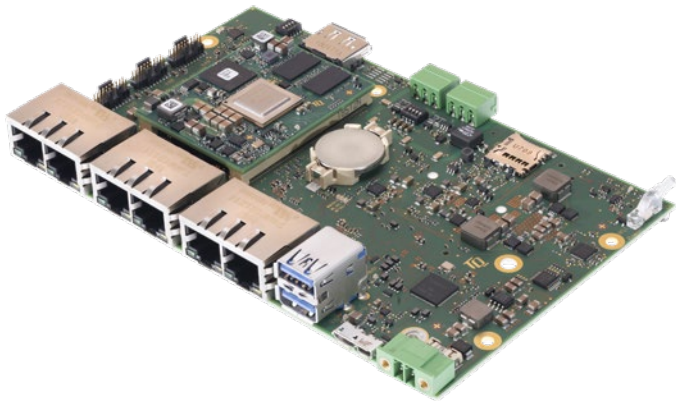


# MBLS1028A-IND

Arm® Family



## HIGHLIGHTS

- ▶ 1x TSN Ethernet 1 Gbit
- ▶ 1x 4 Port TSN Gbit Ethernet Switch
- ▶ Graphics with 3D GPU and 4K support
- ▶ Extended temperature range
- ▶ Low power consumption
- ▶ Security functions

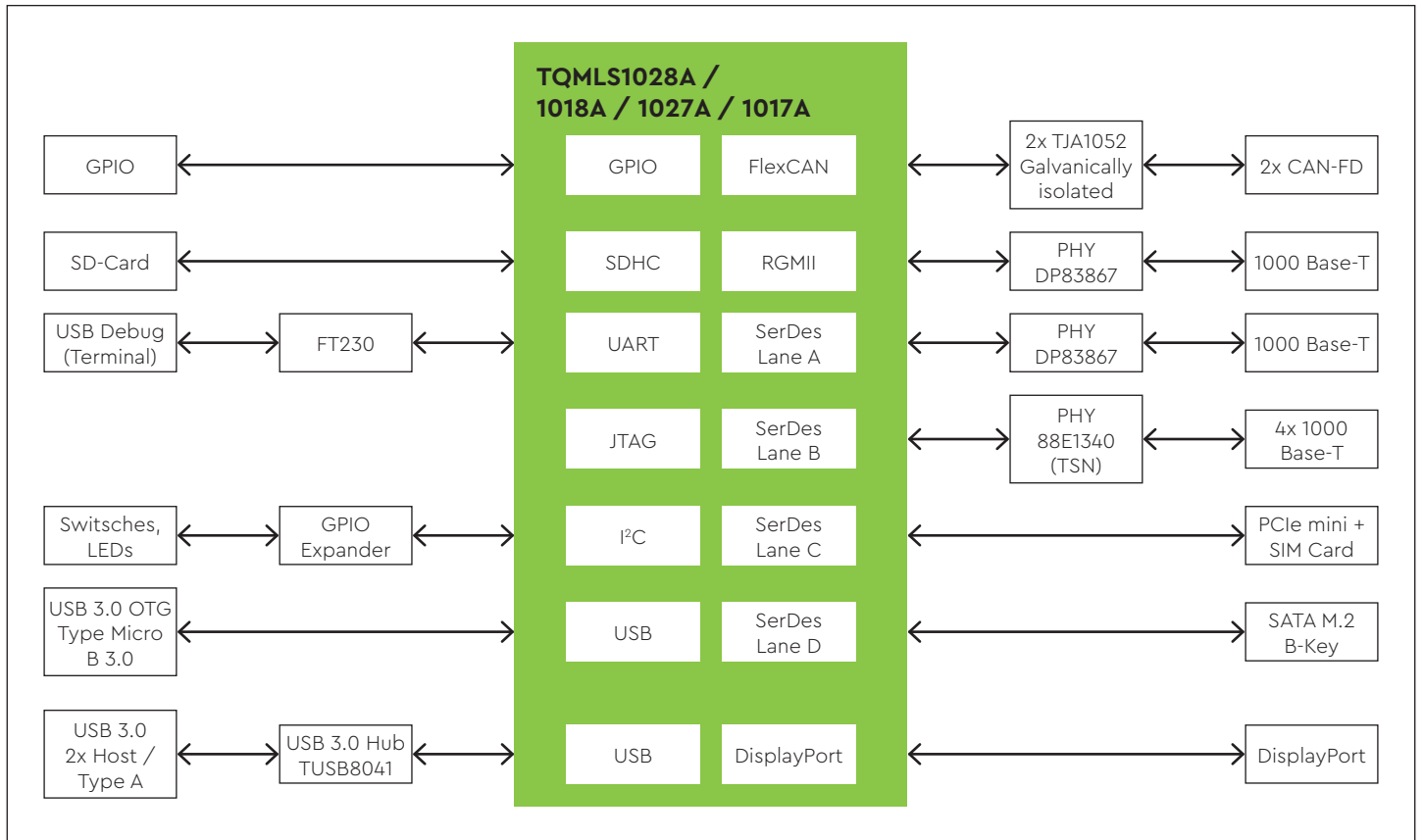
**Single Board Computer (SBC) based on TQMLS10128A as a high speed platform with 4 Port TSN Gigabit Ethernet Switch for Real time demands.**

## TECHNICAL SPECIFICATION

<b>CPU</b>	QorIQ Layerscape LS1028A, LS1018A, LS1027A, LS1017A,
<b>Interfaces</b>	1x 4 Port TSN Ethernet Switch up to 1 Gbit 1x TSN Ethernet 1 Gbit 1x Ethernet 1 Gbit 2x USB 3.0 2x CAN 1x USB 3.0 OTG 1x SATA 3.0 (M.2) 1x Mini PCIe (SIM-Card support) 1x Micro SD.Card
<b>Periphery interfaces</b> <b>Pin Header 1.27 mm</b>	1x SDIO 2x I <sup>2</sup> C 2x SPI
<b>Graphic</b>	eDP/DP Phy
<b>Memory</b>	DDR4-SDRAM: Up to 8 GB ECC Protection (optional) eMMC: Up to 64 GB Quad SPI NOR: Up to 512 MB EEPROM: 0/256 kbit

<b>Other</b>	Real Time Clock (RTC) Temperature sensor CPU JTAG Interface USB-Debug UART
<b>Power supply</b>	18 – 28V
<b>Ambient conditions</b>	Extended temperature range: -40°C...+70°C
<b>Dimensions</b>	160 mm x 100 mm
<b>Operating systems</b>	Linux
<b>Operating systems on request</b>	other TBD

## BLOCK DIAGRAM MBL1028A-IND



## ORDERING INFORMATION

### MBLS1028A-IND-AA

MBLS1028A-IND-AA, TQMLS1028A, Dual Cortex®-A72/1.3 GHz, 64 MB Q-SPI NOR Flash, 1 GB DDR4, 32-kB EEPROM, -40°C...+70°C, 2x USB 3.0, 1x USB 3.0 OTG, 2x ETH 10/100/1000, 1x 4 Port TSN Switch, 1x eDP, 2x CAN, 1x Mini PCIe (SIM-Card), 1x SATA M.2, USB-Debug Interface, JTAG RTC, Temperature sensor, Reset-Button, SD-Card interface

Other variants on request

### STKLS1028A-IND-set

The MBL1028A-IND set is delivered with the TQMLS1028A module with a Cortex®-A72 CPU from NXP. The components contained in the single board computer constitute a modular system enabling you to develop your own product ideas. To develop your own hardware you can use the certified and qualified circuit components of this platform in your own designs. For this platform, there is also a housing solution available to enable use as a complete system.

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