3SB2000 series
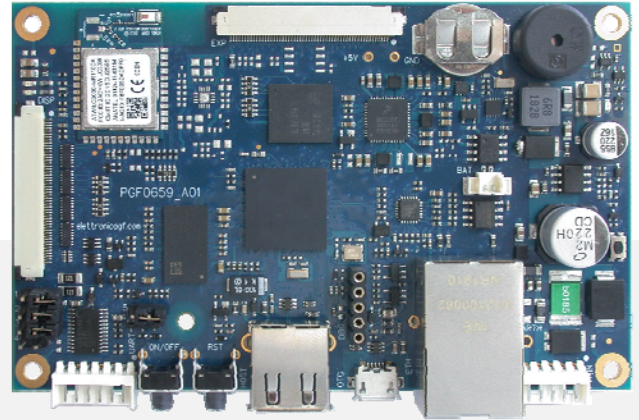
NXP i.MX6ULL

Ultra Low Cost Single Board Computer

CPU

- NXP i.MX6ULL single ARM® Cortex®-A7 core
- Frequency up to 900 MHz

MEMORY

- Up to 1GB DDR3L

STORAGE / BOOT[1]

- Up to 64 GB eMMC
- QSPI FLASH 16 Mb
- Slot microSD (alternative to eMMC)

I/O PERIPHERALS

- Wi-Fi 802.11 b/g/n and BLE
- USB 2.0 OTG
- USB 2.0 Host
- Ethernet 10\100Mbps
- UART port configurable by SW to RS-232 or RS-485
- Buzzer
- RTC

TEMPERATURE SPECIFICATION[3]

- 0 to 85°C for Commercial plus Grade
- -40 to 85°C for Industrial Grade

OPERATING SYSTEMS

- Linux

I/O PERIPHERALS EXPANSION CONNECTORS[12]

- I2C x 2
- SPI x 2
- S/PDIF
- SAI - I2S audio port
- Up to 8 ADC inputs
- PWM x 7
- Timer GPT x 2
- 8-bit Parallel CSI
- Touch controller to support 4-wire and 5-wire
- 24-bit Parallel LCD
- CAN
- UART x2
- SDIO
- GPIO x 30
- JTAG
- Power on/off button
- Power input/output

SYSTEM

- Dimension 107x67mm
- Single +12/24 VDC power supply
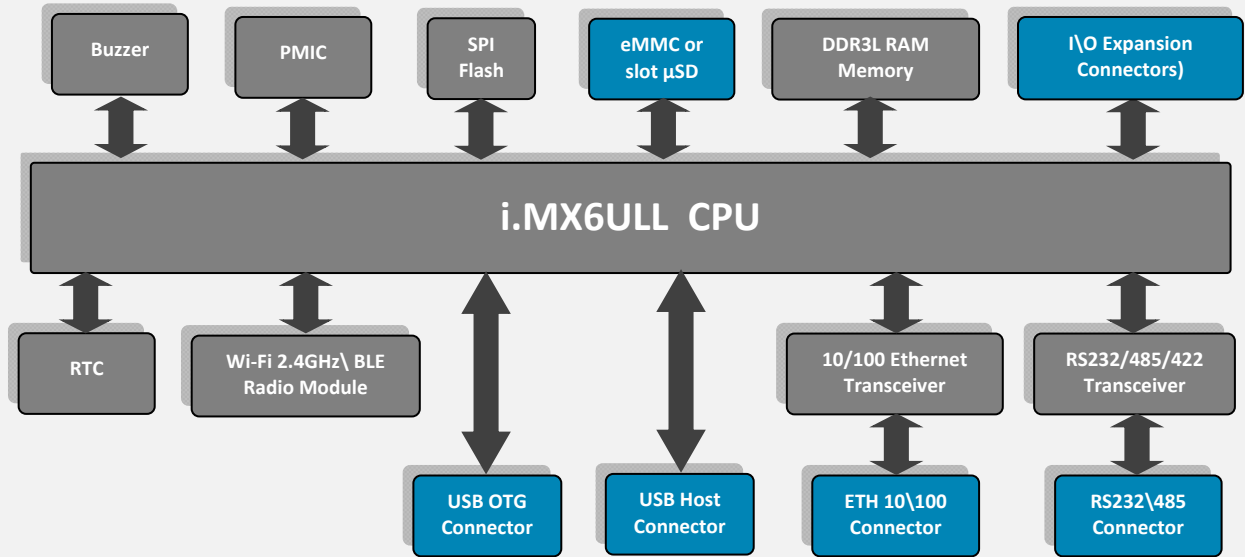- Power consumption depends on CPU frequency / state

[1] Please note that not all the functions may be available simultaneously, due to pin mux limitation of both i.MX6ULx part numbers used and expansion connectors restrictions. For more information, refer to user's manual.
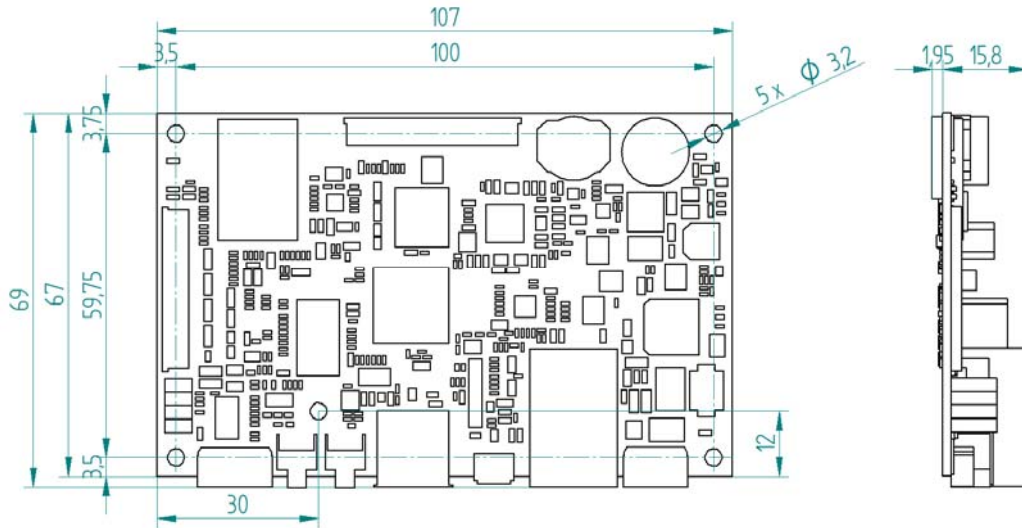
[2] These functions require transceiver or additional circuitry on expansion board.

[3] These temperatures are the ambient operating temperature ranges for the components used into 3SB2000 series, with exception of RTC battery (-20÷70°C) and iMX6ULx processors, which are specified on junction operating temperature range, 0÷95°C for Commercial Plus Grade and -40÷105°C for Industrial Grade. 3SB2000 series ambient operating temperature depends on the application and on the cooling measures applied.

BOARD DIAGRAM

DIMENSIONS

All dimensions are in mm

ORDERING INFORMATION

Standard ordering code

Ordering Code	Descriptions
3SB2000AA3A1A0	i.MX6ULL-900, DDR3 512MB, eMMC 4GB, Wi-Fi/BT, 0°C to 85°C
3SB2000AB3B1B0	i.MX6ULL-800, DDR3 512MB, eMMC 8GB, Wi-Fi/BT, -40°C to 85°C

3SB2000 | AA | 3 | B | 1 | A | 0

Processor

i.MX6ULL-900 **AA**
i.MX6ULL-800 **AB**

DDR3

256MB **2**
512MB **3**
1GB **4**

eMMC

Slot MicroSD **Z**
eMMC 4GB **A**
eMMC 8GB **B**
eMMC 16GB **C**
eMMC 32GB **D**
eMMC 64GB **E**

Radio

Not present **0**
Wi-Fi\BT **1**
Wi-Fi\BT UFL **2**

Temperature Grade

0°C / 85°C **A**
-40°C / 85°C **B**

Not all code combinations are allowed, for more information on ordering codes please contact Elettronica GF sales department.