

A Connect Host PC and MBa6UL2L via USB debug interface

Use the supplied USB-cable to connect the USB debug interface (X10) of the MBa6UL2L to a USB port on your host PC.

Run terminal emulator and configure serial port

Run your favourite terminal emulator on the host PC (we recommend *Tera Term Pro*) and configure the serial port as follows:

Baudrate	Data bits	Parity	Stop bits	Handshake
115200	8	none	1	XON/XOFF

B Supply the MBa6UL2L with power

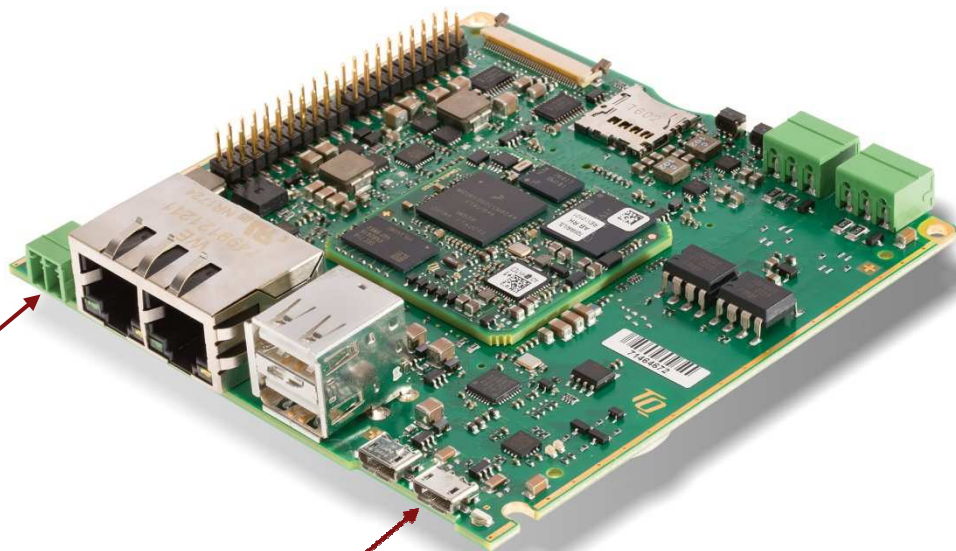
Double-check the mains voltage required for the included power supply, then connect it to connector X21 on the MBa6UL2L.

Caution when using a different power supply!

The MBa6UL2L has an input voltage range of 8 - 30V DC.

Establish Serial Connection

The boot messages of boot loader and operating system are shown in the terminal emulator.

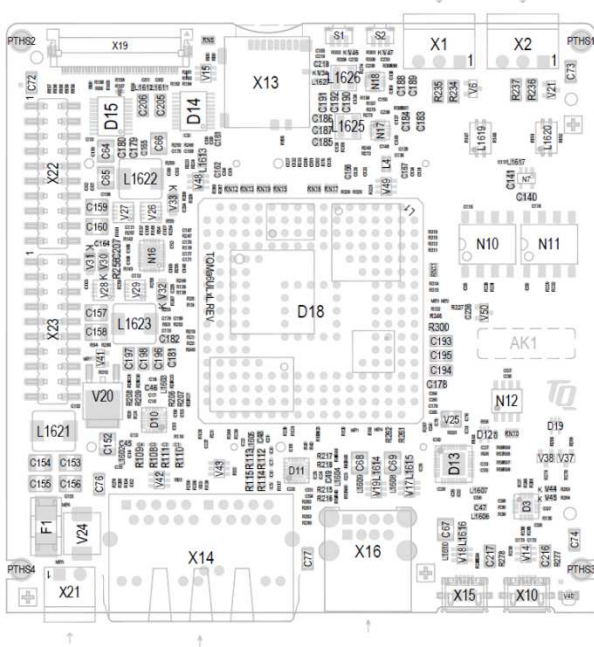


Preliminary Quick-Start Guide MBa6UL2L

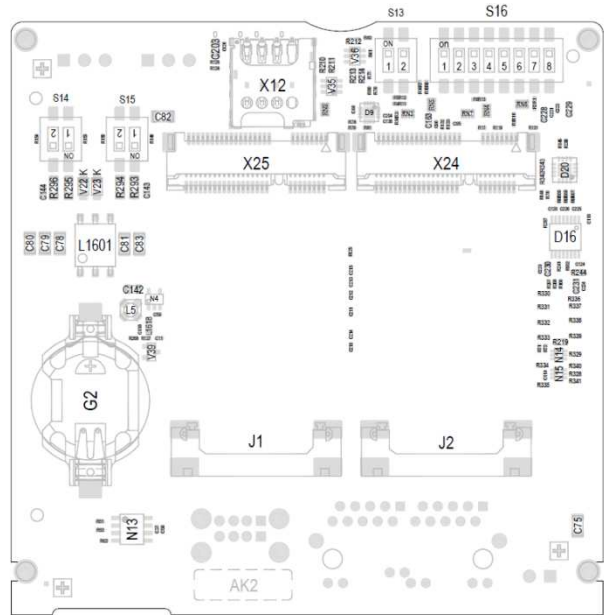


Component scheme

Top View



Bottom View



DIP switch settings

Boot device selection

To select the desired boot medium set the DIP switches S13 and S16 accordingly.

Configuration SD Card

	S13			S16							
DIP	1	2	DIP	1	2	3	4	5	6	7	8
Set	OFF	ON	Set	---	ON	OFF	ON	ON	OFF	OFF	ON

Configuration eMMC

	S13			S16							
DIP	1	2	DIP	1	2	3	4	5	6	7	8
Set	OFF	ON	Set	---	OFF	ON	OFF	OFF	OFF	ON	ON

Configuration QSPI NOR

	S13			S16							
DIP	1	2	DIP	1	2	3	4	5	6	7	8
Set	OFF	ON	Set	---	---	---	---	ON	ON	ON	OFF



Configuration UART Debug

S16		
DIP	1	Function
Setting	ON	Camera Sensor Interface
	OFF	Debug UART

Configuration CAN1

Both switches must be set to ON or OFF otherwise the CAN Bus has an improper termination.

S15		
DIP	1	2
Setting	ON CAN1_L interface terminated (120Ω)	ON CAN1_H interface terminated (120Ω)
	OFF CAN1_L not terminated	OFF CAN1_H not terminated

Configuration CAN2

S14		
DIP	1	2
Setting	ON CAN2_L interface terminated (120Ω)	ON CAN2_H interface terminated (120Ω)
	OFF CAN2_L not terminated	OFF CAN2_H not terminated

CAN1/2 Interface X1 / X2

X1 / X2			
PIN	1	2	3
Signal	CAN1/2_H	CAN1/2_L	GND_CAN_ISO



Pinout Interface X22

Signal	Pin	Pin	Signal
VCC5V0	1	2	VCC3V3
DGND	3	4	DGND
SPI2.SCLK	5	6	I2C4.SCL
SPI2.SS0#	7	8	I2C4.SDA
SPI2.MISO	9	10	GPIO1_IO18
SPI2.MOSI	11	12	GPIO1_IO19
DGND	13	14	DGND
RS232_1_TX	15	16	RS232_2_TX
RS232_1_RX	17	18	RS232_2_RX
DGND	19	20	DGND

Pinout Interface X23

Signal	Pin	Pin	Signal
VCC5V0	1	2	VCC3V3
DGND	3	4	DGND
GPIO4_IO25	5	6	GPIO4_IO21
GPIO4_IO26	7	8	GPIO4_IO22
GPIO4_IO27	9	10	GPIO4_IO23
GPIO4_IO28	11	12	GPIO4_IO24
DGND	13	14	DGND
UART6.TX	15	16	I2C2.SCL
UART6.RX	17	18	I2C2.SDA
DGND	19	20	DGND

Assembling power supply

If the green two pole connector is not assembled to the power supply, please assemble it as shown below.

