Quick-Start-Guide STKLS1028A-IND
QorIQ® Layerscape

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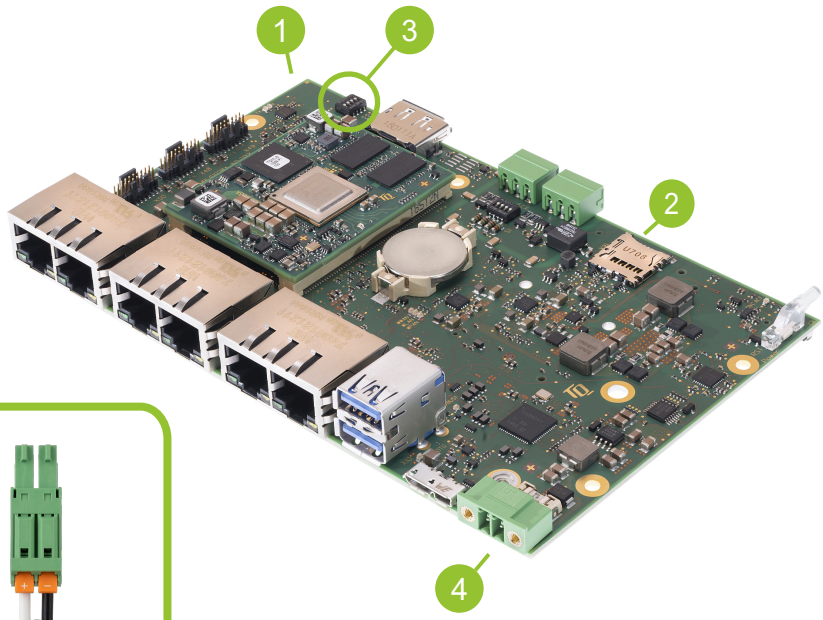
support.tq-group.com



Hardware Setup

1. Debug/Serial
2. SD Card
3. DIP Switches
4. Power

Power Adapter

CONNECT STARTERKIT TO HOST PC

Connect STKLS1028A-IND using the provided Micro USB cable to connect interface X44 to a USB port on the host. A USB serial driver might be required on the host to operate with the Starterkit.
Detailed instructions are available on the STK Quicksteps Wiki page.

RUN TERMINAL EMULATOR AND CONFIGURE SERIAL PORT

After connecting the STKLS1028A-IND, one new serial port is available on the host. This port is the U-Boot / Linux serial debug console.

A terminal emulator is required on the host (Tera Term is recommended). Configure the serial port using the settings from the table on the right.

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

SUPPLY STARTERKIT WITH POWER

Connect the provided power supply to X45 on the STKLS1028A-IND.

Caution when using a different power supply!
The Starterkit has a wide range input from **18V** to **28V** and is designed to operate with a regulated power supply.

ESTABLISH SERIAL CONNECTION

The bootloader and operating system outputs are displayed in the debug console.
Once the boot process is complete, log in to the system using the default user "root" without a password.

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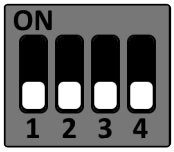
BOOT DEVICE SELECTION

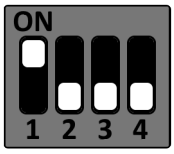
The boot device must be selected with DIP switch **S9**.
By default, the STKLS1028A-IND is configured for SD card boot.

SD Card



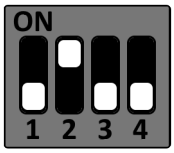
S9

eMMC



S9

FlexSPI



S9

For latest documentation, BSPs, etc. please visit:
https://www.tq-group.com/en/products/tq-embedded/qoriq-layerscape/mbls1028a-ind/
https://support.tq-group.com/en/layerscape/tqmls1028a/mbls1028a-ind

Visit our Website:
https://www.tq-group.com/en/products/tq-embedded

Visit the Quicksteps page to get started:
https://support.tq-group.com/en/templates/mbls1028a-ind/mbls1028a-ind/stk_quicksteps

CREATE A TICKET
Via the TQ-Embedded Helpdesk, you can easily create and manage various types of requests:
https://support.tq-group.com/helpdesk

Users of the Starterkit must not dispose the Kit as unsorted municipal waste, but use the collection framework available in their country for the return, recycle, or recovery of WEEE and minimize any potential effects on the environment and human health due to the presence of hazardous substances.
The Starterkit must be recycled, mechanically shredded, or incinerated without the battery.

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