

# SANTOKA STARTER KIT

## QUICK-START GUIDE



<http://mx31.de/19>

Art. No. 902-0259

**SOLUTIONS THAT COMPLETE!**

**GARZ**  **FRICKE**

# What’s in the box

## Basis equipment

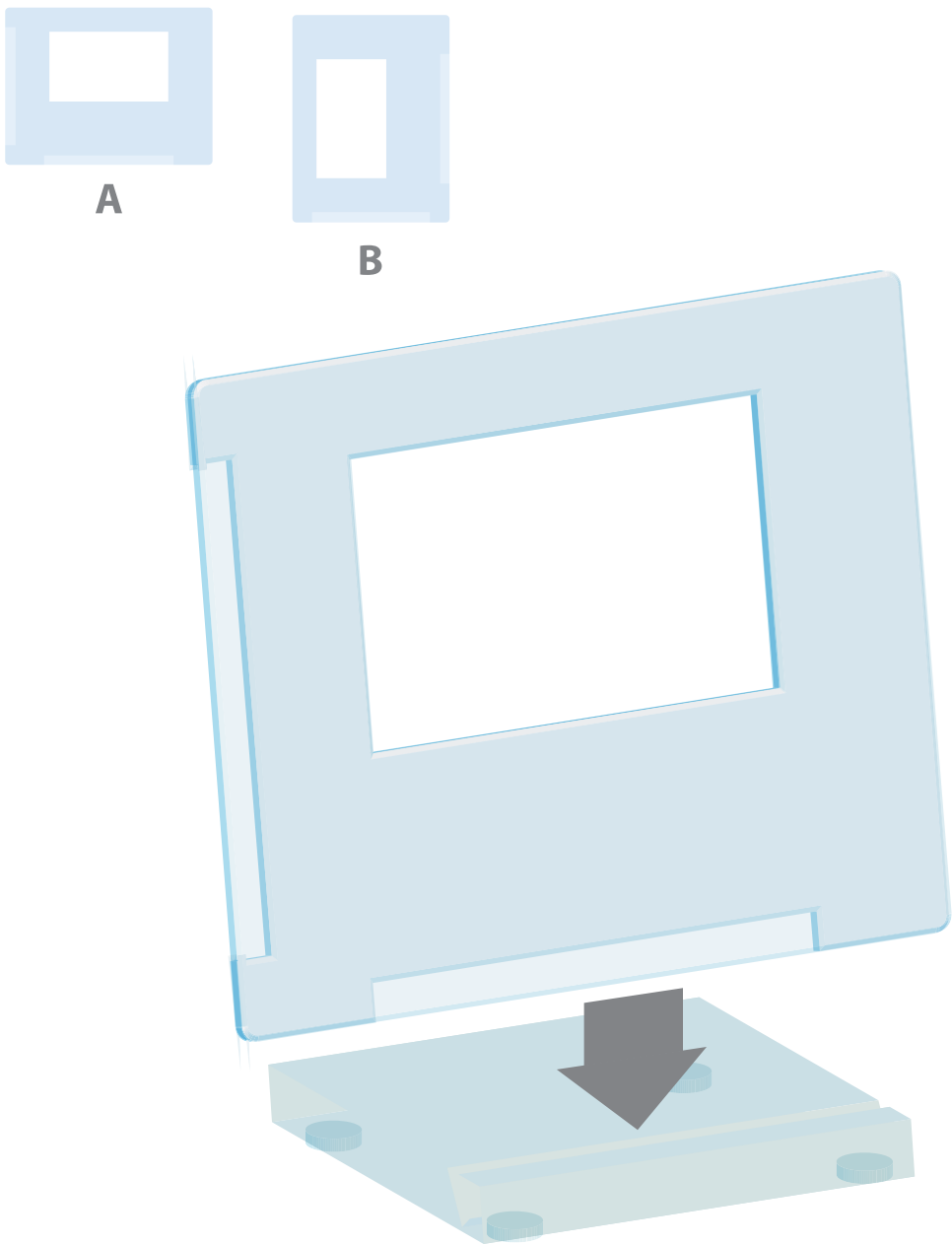
Welcome to the Starter Kit (SK) Quick Start Guide. The guide is designed to help you through the initial setup of the SK. To setup your new Garz & Fricke device, you will typically need the following items. If you purchased one of Garz & Fricke kits it will include many of the items depending on the specific kit.

| Pos. | Description                                                             |
|------|-------------------------------------------------------------------------|
| 1    | Garz & Fricke Single Board Computer or Touchpanel PC, mounted in pos. 2 |
| 2    | Acrylic frame/holder (only Starter Kits with displays up to 7.0“)       |
| 3    | Base plate for pos. 2                                                   |
| 4    | AC/DC adaptor, power supply 12/24 V, incl. header depending on pos. 1   |
| 5    | USB connection cable type A to micro                                    |
| 6    | Serial cable, Sub-D to Molex Micro-Fit, header depending on pos. 1      |
| 7    | Ethernet cable, cross-over                                              |
| 8    | This Quick-Start Guide                                                  |
| 9    | Flash & Go Update-Stick                                                 |
| 10   | Set of connector plugs and crimped wires, according to pos. 1           |



## Stand Assembly

If you have a acrylic frame/holder, start by installing the Santoka inside the frame.



Note: At the end of its serviceable life, the components should not be treated as general waste. They should be handed over to the appreciable collection point for electronic equipment, or send them back to Garz&Fricke for recycling.

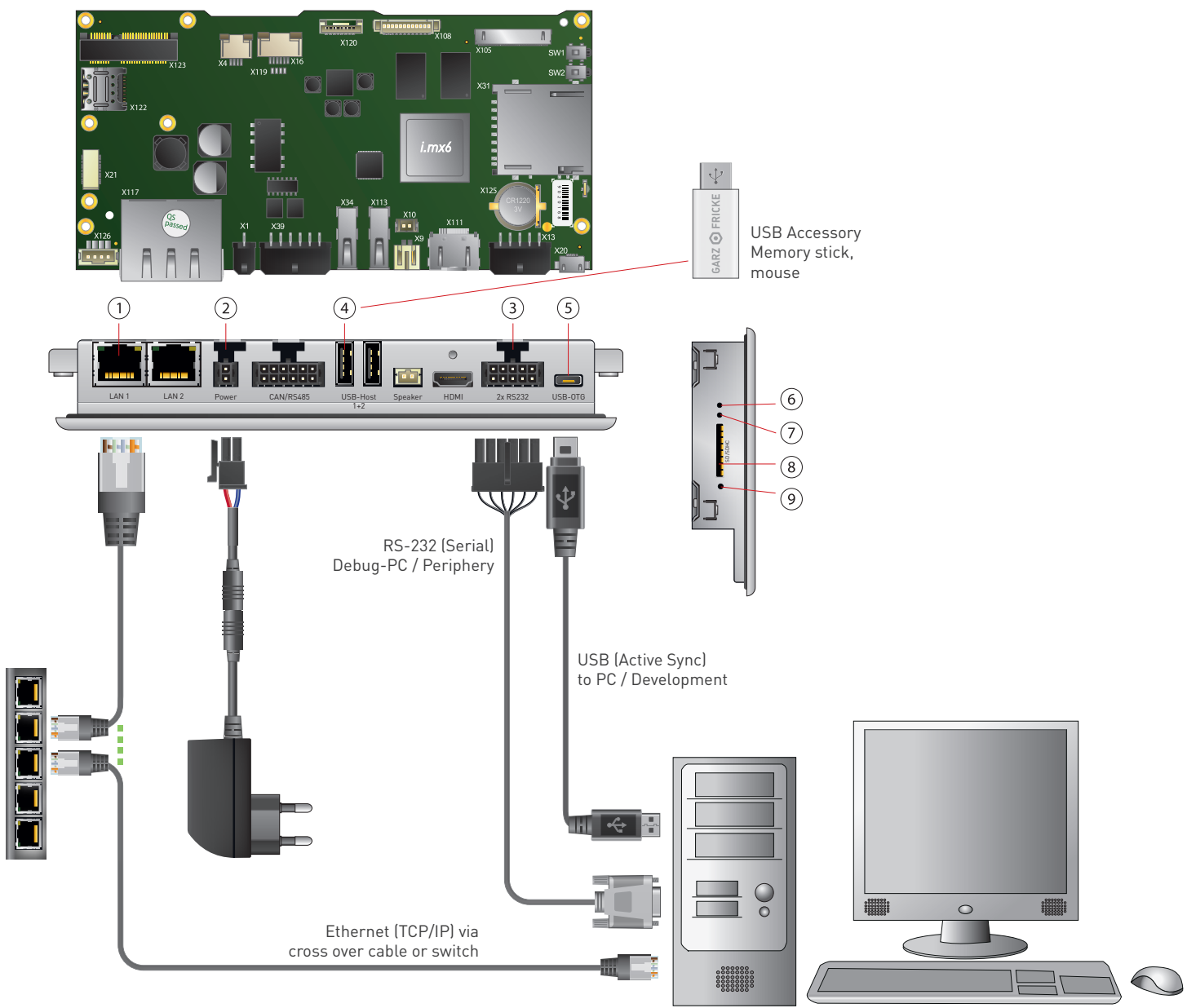
<http://support.garz-fricke.com/products/Santoka/>

OPERATING SYSTEMS

|                    |                                                                                                                                      |                                                                                                                                                                                          |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Linux Yocto Jethro | <br><a href="http://mx31.de/d">http://mx31.de/d</a> | Contains information about Linux BSP with development environment Linux Embedded System Yocto (Codename: Jethro, Version 3.0) includes first information about the bootloader Flash-N-Go |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

UPDATE

|            |                                                                                                                                       |                                                                                                                                                                                                                                                                                                              |
|------------|---------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Flash-N-Go | <br><a href="http://mx31.de/e">http://mx31.de/e</a> | Contains information about the usage of the G&F Flash-N-Go solution which consists of three submodules: <ul style="list-style-type: none"><li>Flash-N-Go Boot (A tiny boot loader)</li><li>Flash-N-Go System (A maintenance os)</li><li>Flash-N-Go Update (A GUI based update solution for all os)</li></ul> |
|------------|---------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



| Pos. | Description    |
|------|----------------|
| 1    | Ethernet       |
| 2    | DC in          |
| 3    | RS-232         |
| 4    | USB-Device     |
| 5    | USB-Host (OTG) |

| Pos. | Description   |
|------|---------------|
| 6    | Reset sw      |
| 7    | Bootselect sw |
| 8    | SD card slot  |
| 9    | Power LED     |

# The first steps...

## Booting up the device

- Some LCD are covered by a protective plastic. This plastic can be removed for optimal touch performance or left for protection purposes.
- Connect the power cable to the power jack on the board and plug in to an AC power source.
- The device will boot-up, start the operating system automatically and displays the Garz & Fricke touch demo software.
- Take a hot coffee from your new coffee mug and start your development.

### Purpose of the cable connections and which is required for booting up the device:

| Pos. | Description    | Usage                                                                                             | Required |
|------|----------------|---------------------------------------------------------------------------------------------------|----------|
| 1    | Ethernet       | Ethernet connection is only needed for firmware download via TFTP server and updating the device. | No       |
| 2    | DC in          | Power chord is used for booting up the device.                                                    | Yes      |
| 3    | RS-232         | Serial connection is only needed for accessing the shell on the device.                           | No       |
| 4    | Flash&Go Stick | A plugged in USB mass storage containing firmware files can be used for updating the device.      | No       |
| 5    | USB-Host       | An USB serial connection can be alternatively used for accessing the shell.                       | No       |

### If you need further information:

| Regarding                         | Can be found in                                   |
|-----------------------------------|---------------------------------------------------|
| Device configuration              | Operation system manual                           |
| Development setup                 | Operation system manual                           |
| Tool Chains                       | Operation system manual                           |
| SDKs                              | Operation system manual                           |
| Updating the device               | Flash-N-Go manual and Operation system manual     |
| Known Restriction                 | Software Release Notes shipping with each release |
| Executed Tests                    | Software Release Notes shipping with each release |
| Changes between software versions | Software Release Notes shipping with each release |

### STARTER KIT IMPORTANT NOTICE

This evaluation board/kit is intended for ENGINEERING, DEVELOPMENT, DEMONSTRATION or EVALUATION PURPOSE ONLY. It is not a finished product and may not (yet) comply with some or any technical or legal requirements that are applicable to finished products, including, without limitations, directives regarding electromagnetic compatibility, recycling (WEEE), FCC, CE or UL (except as may be otherwise noted on the board/kit). Garz & Fricke supplied this board/kit "AS IS," without any warranties, with all faults, at the buyer's and further users' sole risk. The user assumes all responsibly and liability for proper and safe handling of goods. Further, the user indemnifies Garz & Fricke from claims arising from the handling or use of goods. Due to open construction of the product, it is the user's responsibility to take any and all appropriate precautions with regard to electrostatic discharge and any other technical or legal concerns.

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