

conga-QKIT/x86

Starter Kit for Qseven x86 Modules



Quick Start Guide

Preface:

This guide gives a brief overview of the conga-QKIT/x86 and how to quickly install, configure and operate it.

For more information about the conga-QKIT/x86, refer to the conga-QKIT/x86 datasheet and User's Guide on the congatec website.

ESD Precaution

All congatec AG products are electrostatic sensitive devices and are packaged accordingly. Do not open or handle a congatec AG product except at an electrostatic-free workstation.

Additionally, do not ship or store congatec AG products near strong electrostatic, electromagnetic, magnetic, or radioactive fields unless the device is contained within its original manufacturer's packaging. Be aware that failure to comply with these guidelines will void the congatec AG Limited Warranty.

Product Overview

The congatec Qseven Starter Kit conga-QKIT/x86 provides manufacturers and enthusiasts the ability to quickly evaluate Qseven modules.

Additional Information

The conga-QEVAL/2.0 DIP switches and Jumpers are configured by default for standard operation. If you wish to change the default settings, refer to the conga-QEVAL/2.0 User's Guide on the congatec website at www.congatec.com

Included Parts



PN. No	Name	Description	Qty
007003	conga-QEVAL/Qseven 2.0	Evaluation board for QSeven modules	1
500016	ATX Power Supply FSP180-50LH	ATX-Power supply, 180W	1
500025	conga-HDMI add-on card	Adapter card for HDMI-display (x16 PCIe Slot)	1
011115	conga-LDVI/EPI	LVDS to DVI converter board with EEPROM	1
047250	conga-FPA2	LVDS to TTL adapter	1
500010	conga-USB Stick	2 GB USB-stick	1
48000024	HDMI to DVI-D adapter	HMDI (male) to DVI (female) adapter	1
058510	Delock SATA to CF Card Adapter	2.5" SATA to CF-Card Adapter	1
024558	conga-KAB-FPA1-10/30	10-pin, 30cm ribbon cable for conga-FPA2 to panel display	1
044857	conga-KAB-FPA1-40/30	40-pin, 30cm ribbon cable for conga-FPA2 to panel display	1
033331	cab-LVDV-DAT-34-15	34-pin, 1mm pitch, 15cm ribbon cable for LVDS data	1
052147	cab-LVDV-PWR-10-15	10-pin, 15cm, RM 1,27mm ribbon cable for LVDS power (conga-LVDI/EPI)	1
48000029	SATA III cable	Standard SATA-cable, 30cm, straight-straight	2

Hardware Setup

Steps:

- Install the congatec Qseven/x86 module on connector CN1.
- Install the appropriate cooling solution for the Qseven module.
- For HDMI display output, attach the conga-HDMI add-on card to connector X15.
- For DVI display output, attach the conga-LDVI/EPI data and power cables to connectors X41 and X42 (LVDS interface).
- Attach the conga-FPA2 data cable to connector X41 (optional).
- Connect other required peripherals.
- Connect the power supply (either a standard ATX power supply via X26 or a 12 V power supply via connectors M8 & M9).
- Press the power button to turn on the system.

Default DIP Settings

DIP Switch	Switch 1	Switch 2	Switch 3	Switch 4
SW1	ON	ON	ON	ON
SW2	ON	ON	OFF	ON
SW3	ON	ON	ON	ON
SW4	ON	ON	ON	ON
SW9	OFF	OFF	OFF	OFF
M13	OFF	OFF		

Default Jumper Settings

Jumper	Default	Jumper	Default	Jumper	Default
X9	2-3	X33	1-2	X48	1-2
X17	1-2	X37	1-2	X49	1-2
X22	1-2	X43	1-2	X50	1-2
X28	1-2	X44	1-2	X51	1-2
X29	1-2	X46	1-2	X52	1-2
X32	1-2	X47	2-3		

