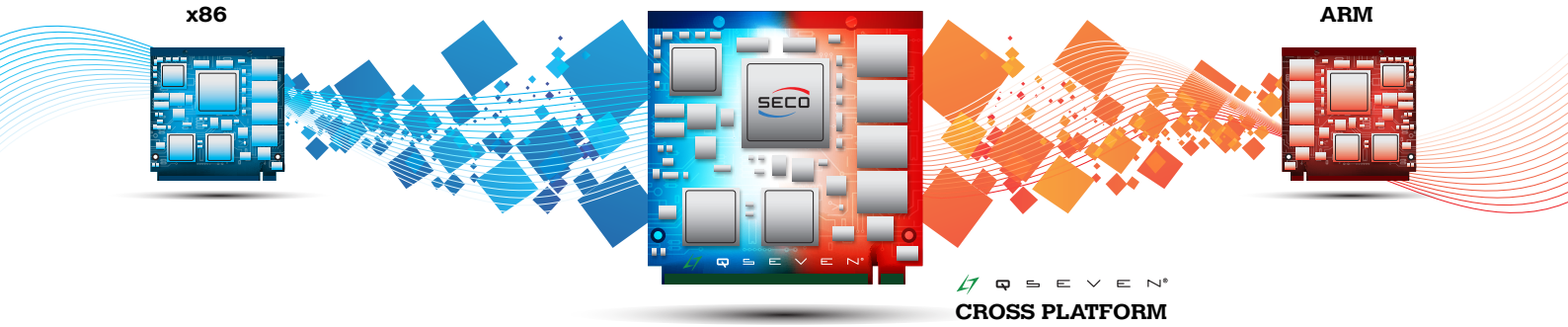
Cross Platform Development Kit

Development Kit

Qseven®

Development kit for Qseven philosophy, compatible with both x86 and ARM Qseven® modules. Compliant to Qseven® specifications rel. 1.20

The Chameleon Philosophy



DESCRIPTION

The Cross Platform Development kit is a complete package that contains all that is necessary to start developing with Qseven® CPU modules, both on x86 and on ARM architectures, and verify the possibilities offered by these two different worlds. In every moment it will be possible to swap from one architecture to the other, with just minor SW adaptations, and see what are the possibilities offered by the other type of architecture with a minor effort and without time waste.
Cross Platform Development Kit is the ideal way for x86 developers to approach ARM world, and vice-versa, exploring new possibilities and choosing the best solution for the application they have to build. The Cross Platform Carrier Board is used for SECOQSeven Design Guide: electrical schematics of the boards will be available for developers that began testing with this board, and want to recycle portions of it for their own-designed Carrier Boards, allowing thus a significant reduction of time for Hardware Development.
SECO offers also the BSP, drivers and SDK for the single QuadMo boards used with the Development board. Using the same components in your own design, will allow sparing time also in Software Development.
Registered users of the Development Kit will have access to all this material through web-site www.secoqseven.com, where it is possible to find any kind of information needed, and ask for help of our Developer's team.

DEVELOPMENT KIT CONTENTS

The Development kit contains the following material:

- Cross Platform Carrier Board
- LVDS Display (7" - 800x480 and/or 10" – 1024x768, at choice)
- 4-wire T/S, already assembled on LCD display
- LVDS to TTL 24-bit display converter
- TTL to RS-232 Transceiver board
- 19VDC Notebook Power Adapter, with Power Cords for connection to EU CEE 7/16, US NEMA 1-15, UK BS 1363A, JP JIS8303
- FFC cable for interconnection or Cross Platform Carrier Board and ARM QSeven® module camera connector
- USB 2.0 Plug "A" – Plug "mini B" for USB client connection
- Connection cables for adapter boards included in the kit
- Connection cable for LVDS display
- 4-Wire Touch Screen cable adapter

Since the Cross Platform can be used with any SECO Qseven CPU Module, the Development Kit DOESN'T CONTAIN any QSeven® module, which has to be purchased separately.

- Schematics
- BOM
- Design Review

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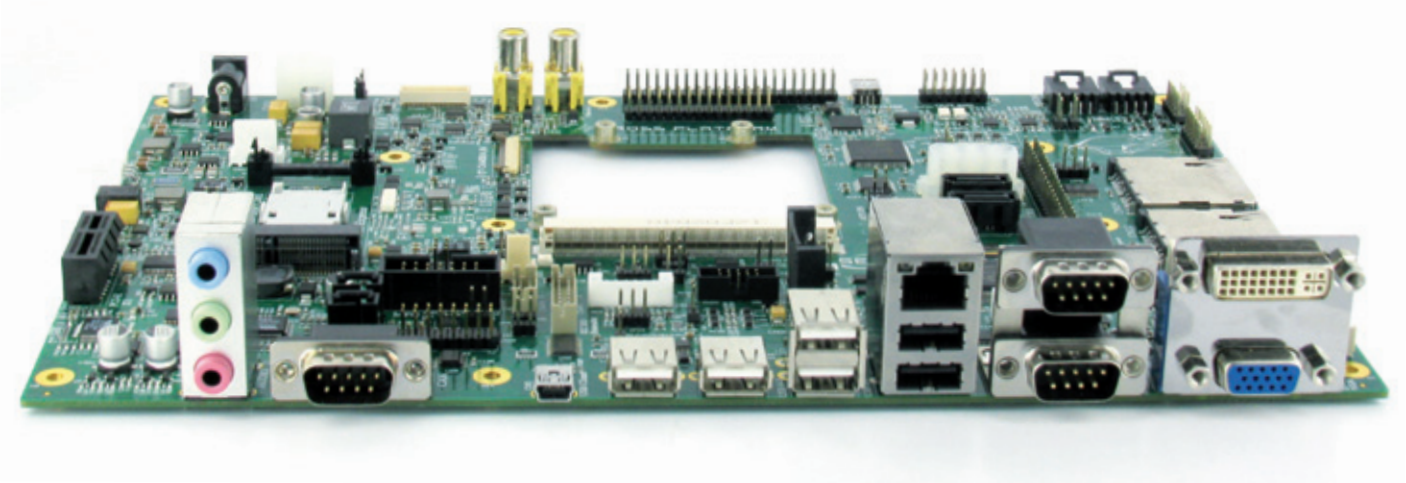
CROSS PLATFORM CARRIER BOARD TECHNICAL FEATURES



Supported Modules	All Qseven® CPU Modules
Expansion Slots	1 x PCI Express x 1 Slot miniPCI express Slot Gigabit Ethernet Interface
Mass Storage	2 x S-ATA connectors Hard Disk Power Connector 2 x SD/MMC slots SDI/O Internal Header
I/O	6 x USB 2.0 standard "A" connector USB Client connector 4 x Serial Ports (2 x DB-9 standard RS-232, 2 x TTL interface) 1 x CAN Interface 4 x GPI/O 3x 4 / 5 Wire T/S interfaces (I^2C, SPI and USB controller directly onboard) Internal FPGA, with possibility of defining up to 64 User I/O's JTAG connection LPC Bus interface SPI interface I^2C applications included: EEPROM, Light Sensor, I/O Extender, SIM Card slot A/D Converter
Audio	Triple Audio Jack 2 x S/P-DIF connectors (In & Out) AC'97 and HD Audio Codecs integrated, jumper selectable Direct Digital Audio Interface
Video	VGA DB-15HD + DVI-D Single Link connector LVDS LCD and Backlight connector, with voltage selection Video Camera Interface, NTSC/PAL/SECAM video decoder integrated
Power	$+5V_{DC}/+12V_{DC}$ for Desktop application, $+19V_{DC}$ for Notebook-like application Smart Battery Management Li-ION Single Cell Battery Management
FAN	3 pin Header, +5/+12V configurable with Tachometric signal
Temperature	Operating: 0° … +60°C Storage: -20° … +80°C
Dimensions	270 x 170 mm (10,63" x 6,69")

ORDERING INFORMATION

Please contact SECO for ordering information by using the following ***P/N*** *Q7XDK*

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