

MSC Q7-SK-US15W-EP3

Intel® Starter Kit



Description

The Qseven Starter Kit consists of the compact 3.5" Qseven baseboard MSC Q7-MB-EP3, the Qseven heatspreader and a bootable Ubuntu 9.10 Linux installation. A power supply with cable kit is also included for convenience.

Along with the Qseven Starter Kit, the selected CPU module will be pre-assembled with the heatspreader and mounted on the Qseven baseboard in order to save the customer assembly time.

Direct screen output on a PC monitor is possible using the on-board VGA output. Optionally available is an alternative Starter Kit which includes a suitable LCD kit with a 7" LVDS TFT panel at WVGA resolution (800x480).

A Resource-CD with all necessary drivers and tools completes the Qseven Starter Kit. Just plug USB stick with the pre-installed Linux systems and you are ready to experience Qseven and Intel® Atom™ technology.

Highlights

- Socket for Qseven™ compatible modules
- VGA port and onboard LVDS connector
- Mini PCI Express slot and MMC/SD Card socket
- Two SATA and one RS232 D-Sub9 connector
- Four USB 2.0 interfaces, one mini-USB 2.0 OTG
- Touch screen controller (4 or 5 wire)
- HD audio codec (6 channel), one channel to front
- Fan control and EEPROM for display parameters
- 12 V Power Supply provided with cable kit
- Optional LCD Kit with 7" TFT at WVGA resolution 800 x 480 including TFT and all necessary LVDS and backlight power cablesbus up to 400 kbit/s

Technical Data – Qseven Starterkit

Module Interface

Qseven Module Connector

Socket for Qseven™ compatible module

Storage

SATA

2 x SATA connectors routed to Qseven module

MMC/SD Card

Cardholder with 4 bit interface

EEPROM

Serial EEPROM for EPI/DP extensions

Standard Interfaces

USB

4 x USB 2.0

- 2x USB-Host (Series-A Jack) and 2x USB-Host internal pin header
- USB-Host or USB-Client on mini USB connector
- USB at Mini PCI Express socket

Serial

RS232C on 9 pin D-Sub connector driven by the onboard USB-to-RS232 converter (FT232RL)

Mini PCI express

Socket for one mini-PCIexpress module with USB

Audio Interface

HD Audio codec VT1708, all signals on pin header, line out on front

Flat Panel / CRT Interface

Graphics

VGA 15 pin D-Sub connector via onboard SDVO/CRT converter, max. 1920x1080 depending on module

LCD Interface

LVDS interface on Jili30 connector, EEPROM to store display data, Backlight connector onboard (3.3/5/12V)

Miscellaneous

Onboard system signals

Power Button, Reset, Beeper

LAN Interface

Ethernet

One RJ45 connector with LED for LAN from Qseven module

Touch Controller

4/5 wire Touch Controller HS12-100S00 drives 5-wire connector on internal pin header and 2 pin-out versions of 4-wire FFC

Heatspreader

Heatspreader

MSC Q7-US15W-01 HSP-001 (mounted on Qseven module)

Heatrail

MSC Q7-XXX-01 HTR-001 (mounted under Qseven module)

Power Supply

Power Supply

110-230V AC to 12V DC with cable kit connecting to 4 pin ATX style power connector on Q7-MB-EP1 baseboard; features an additional disk drive power connector.

Environment

Ambient Temperature

0° ... +60° C operating, -25° ... 85° C storage

Humidity

20 ... 80% operating, 5 ... 95% storage (non condensing)

Mechanical

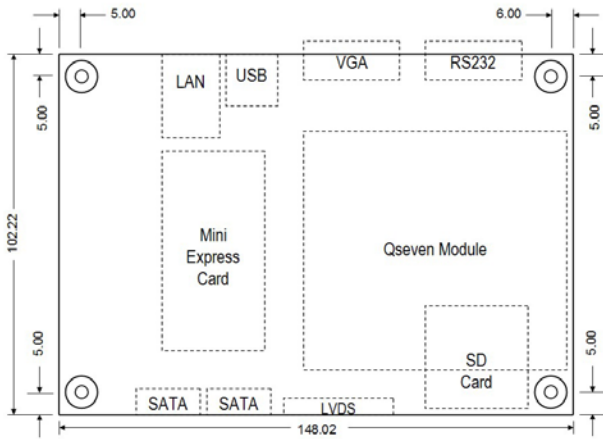
Dimensions

148 mm x 102mm

Optional Accessoires

Order Reference – Qseven Starterkit

Order number	Product description	Order reference
123456	Qseven Starterkit	MSC Q7-SK-US15W-EP1-001-KIT000
	Qseven Starterkit with 7" WVGA TFT additional parts used: G070VW01 V0/Touch (7" WVGA TFT LVDS with resistive Touch Panel) K.0011.002.16.0.00 (Data Cable and Backlight Power Cable)	MSC Q7-SK-US15W-EP1-002-KIT000



Qseven™ (www.qseven-standard.org) is an open standard which specifies a COM (Computer on Module) offering latest interface technologies such as PCI Express, SATA, USB 2.0, Gbit LAN and LVDS on an ultra small form factor module 7 x 7 cm (2.75 x 2,75 inch). It is positioned below the COM Express™ product portfolio.

Qseven modules are plugged onto a specific baseboard and support the x86 architecture as well as ARM/RISC architectures in the common specification. In order to assist customers in the evaluation of Qseven modules and small volume production, MSC is providing some baseboards such as the Qseven Embedded Platform or the Qseven Reference Platform.

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