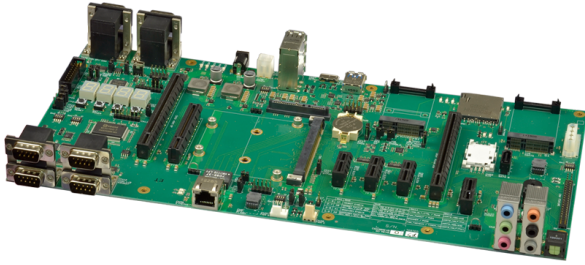



MSC Q7-MB-RP3

Qseven™ 2.0 Evaluation Board



 435 x 170

 N.A.

 N.A.N.A.



Description

The MSC Q7-MB-RP3 is the third generation reference platform provided to test and qualify Qseven™ Rev. 2.0 modules for compatibility with the SGET specification. The board is shipped with a complete set of design files. An extensive design guide for the Qseven™ module technology is also provided to allow the motherboard designer to easily implement a custom version of a Qseven™ carrier.

The Qseven™ Rev. 2.0 reference platform MSC Q7-MB-RP3 offers a large variety of interfaces commonly used in industrial applications such as Gigabit LAN, USB 3.0/2.0, RS232 and CAN as well as HDMI, DP and LVDS for display attachment. In addition PCI Express is supported with one x16 and three PCIe x1 slots. This platform for rapid prototyping helps to assess the fitness of a specific CPU Technology. It is a key instrument to shorten design cycles and to improve time to market of new Qseven™ based systems.

Highlights

- One PCI Express™ x16 slot and 3 x1 slots
- Two graphic card slots for HDMI / DP / eDP / LVDS
- Mini PCI Express™ & mSATA slot
- SD Card socket and SIM Card slot
- Two SATA onboard connectors
- Winbond W83627DHG Super I/O
- EXAR X28V384 Super I/O
- 7x COM, HW monitor
- CAN Transceiver
- HD audio codec
- USB 3.0, 4x USB 2.0 Host and USB 2.0 Client interfaces

Technical Data - MSC Q7-MB-RP3

Formfactor	Wide-ATX
Storage Interfaces	2x SATA
USB	USB 3.0, 4x USB 2.0 Host, USB 2.0 Client
Serial Interfaces	2x COM from Winbond Super I/O 4x COM from EXAR Super I/O 1x COM from Qseven module
Bus Interfaces	PCI express x16, 3x PCIe x1
Display Interfaces	HDMI, DP, eDP, LVDS on add-on cards
Network Interface	GbE
Audio Interface	HD Audio on 6 connectors + S/PDIF
Power Requirement	12V on standard connectors
Certificates	UL

Order Reference - MSC Q7-MB-RP3

Order Number	Description	Reference	Cat*
1135005	The MSC Q7-MB-RP3 is a reference platform designed for evaluation and test of Qseven Rev. 2.0 modules. The ATX format carrier board provides the Qseven 2.0 module slot and provides access to all signals available on the Qseven edge connector. The graphics signals from the Qseven module are available on two PCIe x16/x8 connectors for which the MSC Q7-MB-RP3 provides two graphics adapter cards: (1) HDMI and DisplayPort Adapter Card; (2) LVDS and eDP Adapter Card.	MSC Q7-MB-RP3	PV

*COM products are divided in two categories, „PV“ (preferred variant) and „OR“ (on request).

Avnet Embedded GmbH
 Industriestr. 16
 76297 Stutensee

AvnetEmbedded@avnet.com
[avnet.com/embedded](https://www.avnet.com/embedded)

Copyright © 2023 Avnet. All data is for information purposes only and is subject to change without notice. No guarantee for legal purposes is implied. Information in this document has been carefully checked, however, no responsibility for inaccuracies has to be assumed. All brand or product names may be trademarks and property of their respective owners.