

## MSC C7-SK-DV-EV

### COM Express Type 7 Starterkit



305mm x 244mm



N.A.



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**COM**  **Express**

### Description

The MSC C7-SK-DV-EV-KIT001 is a ready-to-run Starter Kit for COM Express Type 7 modules based on the Intel C3000 CPU. It is ideally suited for evaluation purposes, for software development and for prototyping of Type 7 applications.

It contains the new COM Express baseboard for Type 7 modules providing the interface infrastructure for the COM Express Type 7 modules with various PC type connectors for external access. In addition the Starter Kit comes with the suitable Heatsink with Fan for MSC C7B-DV and C7B-DVL modules, a PCIe Graphics Card, 2x DDR4 memory modules and a suitable ATX power supply. The MSC C7-SK-DV-EV-KIT001 does not contain the COM Express module thereby leaving the choice of module variant to the user. The suitable MSC C7B-DV or C7B-DVL module should be ordered along with the Starter Kit.

## Highlights

- Starterkit for COM Express™ Type 7 modules with Intel “Denverton” C3000 CPU
- Heatsink with Fan for MSC C7B-DV or C7B-DVL modules
- 2x 4GB DDR4 SODIMM
- PCIe Graphics Card
- Baseboard for Type 7 modules
- Seven PCI Express slots x4 and x8
- Two SATA connectors \*
- Four USB 2.0/3.0 connectors \*
- RJ45 LAN connector GbE
- Two RJ45 LAN connectors 10GbE \*
- Two SFP+ Slots 10GbE \*
- SD Card socket
- Super IO controller
- Slot for optional BMC add-on card
- POST code LED display
- Various additional COM Express™ specific interfaces
- ATX-style power connector / 12V-only jack
- Size 305mm x 244mm
- \*Support depending on COM Express module used

## Technical Data - MSC C7-SK-DV-EV

<b>Technology</b>	COM Express Type 7 Starterkit
<b>Formfactor</b>	ATX
<b>Flash</b>	Socket for external BIOS Flash
<b>Storage Interfaces</b>	2x SATA 6Gb/s; SD Card socket
<b>USB</b>	4x USB 3.0 (USB 2.0 compliant)
<b>Serial Interfaces</b>	2x serial RS232 ports from COM Express module on pin-headers 2x serial RS232 legacy ports from Super I/O on pin-headers
<b>Bus Interfaces</b>	PCI Express™ One PCI Express x8 (on PCI Express x16 socket), six PCI Express x4 (on PCI Express x4 or x16 sockets);  LPC/eSPI LPC/eSPI on 10-pin header;
<b>Display Controller</b>	PCIe Graphics Card enclosed
<b>Display Interfaces</b>	via optional BMC add-on card
<b>Network Interface</b>	2x RJ45 connectors for 10Gb LAN from COM Express module, 1Gb/s, 10Gb/s supported, 2x SFP+ connectors for 10Gb LAN from COM Express module, 1Gb/s, 10Gb/s supported, 1x RJ45 connector for 1Gb LAN from COM Express module, 10/100/1000 Mb/s supported

<b>Miscellaneous</b>	<p>Feature connector Carrying SMBus, I<sup>2</sup>C bus, power button, reset button, beeper, HD LED and other system signals</p> <p>GPIO Four input, four output signals on a pin header; partially shared with SD Card socket</p> <p>Super I/O LPC/eSPI based Super I/O with 2x COM, LPT</p> <p>Fan 1x 4 pin fan connector; PWM controlled by COM Express module;</p> <p>EEPROM One serial EEPROM on SMB bus Two serial EEPROMs on I<sup>2</sup>C bus</p> <p>Battery CR 2032 type RTC battery (3V, socketed)</p> <p>POST code display 7-segment displays</p> <p>Buttons Power button Reset button Sleep button</p>
<b>Feature Highlights</b>	Full featured carrier board for COM Express Type 7 pin-out
<b>Power Requirement</b>	<p>ATX Power Supply enclosed</p> <p>Standard 20pin ATX power connector and additional ATX12V connector</p> <p>Additional power jack for single voltage supply (wide input range 12V to 20V)</p>
<b>Environment</b>	<p>Ambient Temperature: 0° ... 85°C (operating, MSC C7-MB-EV only), -25° ... 85°C (storage, MSC C7-MB-EV only)</p> <p>Humidity: 5 ... 95% (operating, non-condensing), 5 ... 95% (storage, non-condensing)</p>
<b>Dimensions</b>	305mm x 244mm
<b>Cooling</b>	Heatsink with Fan enclosed
<b>Memory</b>	2x 4GB DDR4 SO-DIMMs

## Order Reference - MSC C7-SK-DV-EV

Order Number	Description	Reference	Cat
78029	Starterkit for COM Express Type 7 modules with Intel C3000 series processors. Consists of the MSC C7-MB-EV platform board for Type 7 modules, suitable heatsink with fan, two 4GB DDR4 memory modules, a graphics card and a suitable power supply with cable kit.	MSC C7-SK-DV-EV-KIT001	PV

## Accessories

Order Number	Description	Reference
<b>10.1" Displaykit</b>		
78879	Displaykit suitable for all COM Carrier Boards and all COM Starterkits. Comprises 10.1" WXGA LCD with PCAP Touch Sensor and Touch Controller. Includes all cables required to connect to COM Carrier Boards (LVDS, B/L & Touch).	MSC DIS-AM1280800-101-KIT SETPAC
<b>12.1" Displaykit</b>		
78880	Displaykit suitable for all COM Carrier Boards and all COM Starterkits. Comprises 12.1" WXGA LCD with PCAP Touch Sensor and Touch Controller. Includes all cables required to connect to COM Carrier Boards (LVDS, B/L & Touch)	MSC DIS-AM1280800-121-KIT SETPAC
<b>5.0" Displaykit</b>		
81871	Displaykit suitable for all COM Carrier Boards and all COM Starterkits. Comprises 5.0" WVGA LCD with PCAP Touch Sensor and Touch Controller. Includes all cables required to connect to COM Carrier Boards (LVDS, B/L & Touch)	MSC DIS-AM800480-050-KIT SETPAC
<b>7" Displaykit</b>		
78911	Displaykit suitable for all COM Carrier Boards and all COM Starterkits. Comprises 7.0" WVGA LCD with PCAP Touch Sensor and Touch Controller. Includes all cables required to connect to COM Carrier Boards (LVDS, B/L & Touch)	MSC DIS-AM800480-070-KIT SETPAC

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