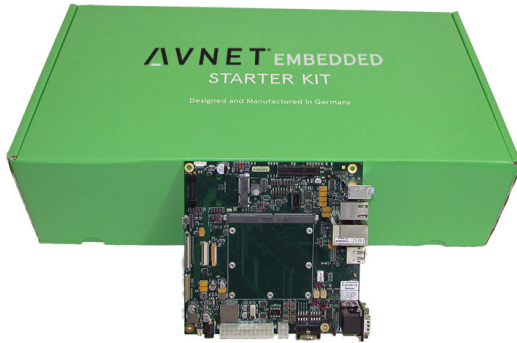


MSC SM2-SK-ZUSP-EP1

SMARC 2.0 Starterkit for Xilinx Zynq UltraScale+ based Modules



170 x 170



Description

Starter Kit for MSC SM2S-ZUSP modules. Includes MSC SM2-MB-EP1 Baseboard, Heatspreader, SD Card with USB Card Reader, Power Supply and suitable cable kit. The Starter Kit does not include the MSC SM2S-ZUSP module. Please order your choice of MSC SM2S-ZUSP-xyz module separately.

Highlights

- SMARC 2.0 carrier board in Mini-ITX format with socket for SMARC 2.0 modules
- Heatspreader suitable for all module variants of the SM2S-ZUSP module family
- 12V power supply and cable kit included for immediate operation of the Starterkit
- Bootable Linux installation on Support Website, can be stored in SD Card (supplied with Card Reader)
- DP and HDMI graphics output
- LVDS graphics output on standard 30-pin connector; backlight connector includes adjustable backlight voltage and dimming
- Ethernet (10/100/1000 LAN) connector
- SATA, 4x USB 2.0 Host, USB Host/Client, UART, SD-Card socket
- Getting Started manual
- Optional TFT kits available

Technical Data - MSC SM2-SK-ZUSP-EP1

Technology	Kit with Carrier
Formfactor	Mini-ITX
Storage Interfaces	1x SATA-II (3Gbps) connector
USB	2x USB 3.0 host port 2x USB 2.0 host port 1x USB 2.0 OTG port (MicroUSB) 1x USB 2.0 on Mini PCI Express slot
Serial Interfaces	1x RS232 (UART0) on DB9 connector with 2-wire hand shake 1x RS232 (UART1) on pin header w/o hand shake
Bus Interfaces	PCI Express lanes from module can be connect to either 1x PCI Express x4 Gen.2 slot or 1x Mini PCI Express x1 Card slot 1x CAN 2.0B on DB9 connector 1x CAN 2.0B on pin header 1x eSPI connector SPI, SMBus, I2C, and GPIO on pin header
Display Interfaces	DisplayPort connector HDMI connector 40-pin eDP connector LVDS on Jili30 connector with EEPROM for display data and backlight connector MIPI CSI-2 camera interface on 15pin FFC connector
Network Interface	10/100/1000BASE-T Ethernet on RJ45 connector
Audio Interface	I2S Audio codec, routed to three audio jacks
Miscellaneous	4-pin fan connector, PWM controlled by module Socket for CR2032 type RTC battery (3V) Serial EEPROM for board data Serial EEPROM for LVDS display data SPI Boot Flash, socket Power and Reset button Confi guration switches/jumper
Feature Highlights	SMARC™ 2.0 carrier board for full and short size modules Support of listed carrier board features and interfaces depends on used module
Power Requirement	12V Power supply contained in Starterkit
Environment	Temperature Range: 0°C ... +60°C operating -20°C ... +85°C storage Humidity: 5 ... 90% (operating, non condensing) 5 ... 90% (storage, non-condensing)
Dimensions	170 x 170 mm
Certificates	UL / CE

Cooling	included
Carrier	Mini-ITX

Order Reference - MSC SM2-SK-ZUSP-EP1

Order Number	Description	Reference	Cat
77581	Starter Kit for MSC SM2S-ZUSP modules. Includes MSC SM2-MB-EP1 Baseboard, Heatspreader, SD Card with USB Card Reader, Power Supply and suitable cable kit. The Starter Kit does not include the MSC SM2S-ZUSP module. Please order your choice of MSC SM2S-ZUSP-xyz module separately.	MSC SM2-SK-ZUSP-EP1-KIT001	PV

Accessories

Order Number	Description	Reference
10.1" Displaykit		
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
12.1" Displaykit		
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
5.0" Displaykit		
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
7" Displaykit		
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

Avnet Embedded GmbH
 Industriestr. 16
 76297 Stutensee

AvnetEmbedded@avnet.com
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.