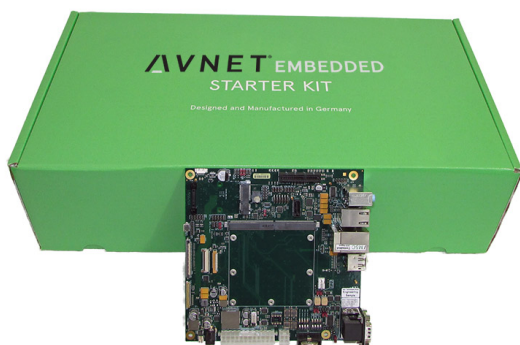


## MSC SM2-SK-ZUSP-EP1

### SMARC 2.0 Starterkit for Xilinx Zynq UltraScale+ based Modules



170 x 170



### Description

Starter Kit for MSC SM2S-ZUSP modules. Includes special MSC SM2-MB-EPZed Baseboard for easy access to all FPGA I/O signals, 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 graphics output
- LVDS graphics output on standard 30-pin connector; backlight connector includes adjustable backlight voltage and dimming
- Ethernet (10/100/1000 LAN) connectors
- SATA, USB and UART connectos
- SD-Card socket
- Header for access to FPGA I/O Singals
- Getting Started manual
- Optional TFT kits available

## Technical Data - MSC SM2-SK-ZUSP-EP1

<b>Technology</b>	Kit with Carrier
<b>Formfactor</b>	Mini-ITX
<b>Storage Interfaces</b>	1x SATA-II (3Gbps) connector
<b>USB</b>	1x USB 3.0 host port 2x USB 2.0 host port 1x USB 2.0 host/client port (MicroUSB)
<b>Serial Interfaces</b>	1x RS232 (UART0) on DB9 connector with 2-wire hand shake 1x RS232 (UART1) on DB9 connector w/o hand shake
<b>Bus Interfaces</b>	1x PCI Express x4 Gen.2 slot SPI, SMBus, I2C, and GPIO on pin header
<b>Display Interfaces</b>	DisplayPort connector LVDS on Jili30 connector with EEPROM for display data and backlight connector MIPI CSI-2 camera interface on 15pin FFC connector
<b>Network Interface</b>	2x 10/100/1000BASE-T Ethernet on RJ45 connector
<b>Audio Interface</b>	I2S Audio codec, routed to three audio jacks
<b>Miscellaneous</b>	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 Configuration switches/jumper
<b>Feature Highlights</b>	SMARC™ 2.0 carrier board for full and short size modules Support of listed carrier board features and interfaces depends on used module  Up to 72 GPIO distributed over several pin-headers, Pmod™ connectors, switches, buttons and LEDs (buffered).
<b>Power Requirement</b>	12V Power supply contained in Starterkit
<b>Environment</b>	Temperature Range: 0°C ... +60°C operating -20°C ... +85°C storage Humidity: 5 ... 90% (operating, non condensing) 5 ... 90% (storage, non-condensing)
<b>Dimensions</b>	170 x 170 mm
<b>Cooling</b>	included
<b>Carrier</b>	Mini-ITX

## Order Reference - MSC SM2-SK-ZUSP-EP1

Order Number	Description	Reference	Cat*
77581	Starter Kit for MSC SM2S-ZUSP modules. Includes special MSC SM2-MB-EPZed Baseboard for easy access to all FPGA I/O signals, 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 BRDFTX	PV

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

## 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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