



## Prototyping made easy with 96Boards

- ▶ Soldered DHCOR STM32MP15 SOM
- ▶ Compatible with accessories of the 96Boards Community
- ▶ Bluetooth and WiFi
- ▶ GB Ethernet
- ▶ Buttons and LEDs for prototyping
- ▶ Available through our partner Arrow Electronics

## Technical Data

Board type	Development Board
CPU details	2x ARM® Cortex-A7 up to 650 MHz 1x ARM® Cortex-M4 up to 209 MHz
CPU vendor	STM
CPU type	Cortex-A7, Cortex-M4
Co-processor available	✓
Number of cores	tbd.

GPU available	✓
GPU type	3D GPU Vivante® @533 MHz - OpenGL® ES 2.0
PMIC	STPMIC1A
DDR3 DRAM	1024 MB
eMMC flash	8 GB
NOR flash	2 MB
E2Prom	128 Byte
microSD available	✓
External RTC available	✗
Bluetooth available	✓
Bluetooth version	Bluetooth® v4.2 (BR/EDR/BLE), PCB antenna
WiFi available	✓
WiFi version	WiFi 5 GHz & 2.4 GHz IEEE 802.11a /b/g /n/ac
USB host	2x Typ A, USB 2.0 High-speed
USB OTG	1x Typ micro-AB, USB 2.0 High-Speed
HDMI	WXGA (1366 x 768 px) @60 fps, HDMI 1.4
Ethernet	10 / 100 / 1000 Mbit/s
Battery socket	CR1216, CR1220, CR1225
Buttons	1x power, 1x reset
LEDs	4x userdefined, 1x Bluetooth, 1x WiFi, 1x power
BSP	Linux (Debian, Yocto)
Boot mode	3 bit boot mode switch
Debug interface	JTAG Interface via tag-connect

Power supply	8 to 18 VDC
Operating temperature	0 to +40 °C
Storage temperature	-40 to +85 °C
Dimensions	100 x 85 mm

### Low-speed expansion connector

UART 1	Rx / Tx / Rts / Cts
UART 2	Rx / Tx
SPI 1	52 Mbit/s
I2C 1	100 / 400 / 1000 kHz
I2C 2	100 / 400 / 1000 kHz
I2S	SAI interface in master mode
Number of GPIOs	12
Power supply	5 VDC

### High-speed expansion connector

MMC/SD	4 bit mode
MIPI CSI-2	2x Rx
MIPI DSI	2x Tx
I2C 1	100 / 400 / 1000 kHz
I2C 2	100 / 400 / 1000 kHz
USB host	USB 2.0 High-speed

## Configurations

Item Number Model (other configurations on request) Product description

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FS00009	Avenger96	-
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\* Other configurations on request