

AVENGER96

a 96Boards CE compliant board based on the first STM32 MPU.


The STM32MP157 is a highly integrated multi-market system-on-chip designed to enable secure and space constraint applications within the Internet of Things. Avenger96 board features dual Arm® Cortex®-A7 cores and an Arm® Cortex®-M4 core. In addition, an extensive set of interfaces and connectivity peripherals are included to interface to cameras, touch-screen displays and MMC/SD cards. It also fully supports wireless communication, including WLAN and BLE.

FEATURES

- > Fully mainlined Open Source Linux® Distribution supported by Linaro™
- > Full STM32CubeMX integration makes the heterogeneous system design fast and easy
- > Access to hundreds of add-on cards from 96Boards
- > Easy System portability thanks to the transposable SoM from Avanger96 towards final PCB product
- > Reduced time-to-market and low BoM implementation
- > Highly integrated ST PMIC saving PCB area

PARAMETERS

- > Dual Arm® Cortex®-A7 650MHz, Arm® Cortex®-M4 209MHz
- > 3D GPU Vivante 533MHz OpenGL ES 2.0 compatible
- > 1GB DRAM DDR3L @ 533MHz, eMMC 8GB flash
- > Interfaces: Gigabit Ethernet, I²C, SPI, I²S, MIPI-CSI2, MIPI-DSI, USB, UART, HDMI, WiFi 802.11b/g/n/ac, Bluetooth® 4.2 LE



Gbit ETH Microchip KSZ903	Low Speed Expansion Connector UART, I²C, SPI, I²S, GPIO, RESET, 1V8, 5V,DCin	USB HUB Microchip KSZ903
HDMI TRANSCIEVER Analog ADV7513	STPMIC1 	STM32MP157 2x Cortex-A7@650MHz 1x Cortex-M4@209MHz Vivante GPU@533MHz
WiFi / BLE 802.11a/b/g/n/ac BT 4.2 BLE Murata 1MW	DRAM DDR3 1GB	DC IN 8 - 18V DC
MIPI CSI-2 Deserializer ST STMIPID02	SPI FLASH 2MB	uSD
High Speed Expansion Connector MIPI CSI-2, DSI, USB, I²C, SD/MMC	DHCOR STM32MP157 (29 x 29 mm, 271 pin LGA) 	

