Ethernet MCU card with STM32F107VCT6 (100-pin TQFP)
Card information

The Default MCU card that comes with the EasyMx PRO™ v7 for STM32® package is shown on Figure 1. It contains STM32F107VCT6 microcontroller with on-chip peripherals and is a great choice for both beginners and professionals. After testing and building the final program, this card can also be taken out of the board socket and used in your final device.

Figure 1: Default MCU card with STM32F107VCT6

STM32F107VCT6 is the default chip of EasyMx PRO™ v7 for STM32®, It has 72MHz frequency, 256K bytes of Flash memory, 64K bytes of general-purpose SRAM, integrated Ethernet controller, USB 2.0 (OTG, Host, Device), 80 General purpose I/O pins (mappable on 16 external interrupt), 4x16-bit timers, 2x12-bit A/D (16 channels), 2x12-bit D/A, 5xUARTs, internal Real time clock (RTC), 2xI2C, 3xSPI and 2xCAN controllers.

25MHz crystal oscillator. We carefully chose the most convenient crystal value that provides clock frequency which can be used directly, or with the PLL multipliers to create higher MCU clock value. MCU card also contains 32.768 kHz crystal oscillator which provides external clock for RTCC module.

USB communications lines. These two jumpers, when in USB position, connect D+ and D- lines of the on-board USB connector with PA11 and PA12 microcontroller pins. Since STM32F107VCT6 supports USB, jumpers are in USB position.

Ethernet transceiver. Default MCU card contains single-chip Ethernet physical (PHY) layer transceiver which provides additional Ethernet functionality to STM32F107VCT6 controller.
Figure 2: MCU card schematics
Card dimensions

Figure 3: MCU card dimensions. Values are in mils.
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