

# VK-RA6M5

## ver. 1.0

ARDUINO UNO rev3 form factor  
Renesas Electronics ARM Cortex-M33 MCU

### R7FA6M5BH3CFB

- 200MHz, 144pins LQFP

### 512 KB OnChip RAM

- Up to 128 MB OnBoard Octa RAM

### 2 MB OnChip FLASH

- 8KB OnChip Data FLASH
- 16MB OnBoard QSPI FLASH
- Up to 256 MB OnBoard Octa FLASH

### 1 x USB 2.0

- USB, **FS** Function micro Type **AB** connector

### Connector for External Battery (3V)

### Micro SD

- SDHI

### User interface

- LED (Red & Green)
- 2 Push button

### Communication Ports

- USB, CANFD, RJ45, RS485, Grove I<sup>2</sup>C

### LCD display interface

- Pmod 2 connector

### Exp. Ports

- ARDUINO UNO form-factor (rev3)
- 2 Extra header (**10 + 8 I/O** RA6M5 pins)

### Debug ports:

- ARM J-TAG/SWD 2x5 pins, Coresight™
- MBED DAPLink (Composite CDC, MSC, HID)

### DC IN +(5 ... 24)V

- Consumption 500mA max

### Operating temperature:

- -40 ... +85°

### Dimensions:

- 53 mm x 68 mm
- Mounting holes 4 x Ø3,2 mm

