

VK-RA6M3

ver. 1.0

ARDUINO UNO rev3 form factor
Renesas Electronics ARM Cortex-M4 MCU

R7FA6M3AH3CFC

- 120MHz, 176pins LQFP

640 KB OnChip RAM

2 MB OnChip FLASH

- 16MB OnBoard QSPI, 64MHz, Quad(Burst), 4-bit
- Execute in place (XIP)

2 x USB 2.0

- USB, **HS** Host/Function micro Type **AB** connector
- USB, **FS** Function micro Type **B** connector

Connector for External Battery (3V)

Micro SD

- SDHI

User interface

- 4 LEDs (Red, Green, Blue, Yellow)
- 1 Push button

CMOS camera interface

- KBCR-M04VG-HPB2033VGA 640x480, up to 60fps, horizontal angle 98 degrees, vertical angle 75 degrees

Communication Ports

- USB, CAN, RJ45, RS485

LCD display interface

- 40pin 24bit RGB + 6pin I²C capacitive touch

Exp. Ports

- ARDUINO UNO form-factor (rev3)
- 2 Extra header (**10 + 8 I/O** RA6M3 pins)

Debug ports:

- ARM J-TAG/SWD 2x5 pins, Coresight™
- ARM 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

