

Home Assistant Yellow

Datasheet v1.3

September 2022



- Dimensions: 124mm x 124mm x 35mm (LxWxH)
- Weight
 - Device: 270g (including heatsink, without PSU/Ethernet cable)
 - Package: 600g (Home Assistant Yellow SKU, including CM4, packaging, PSU and Ethernet cable)
- Enclosure
 - Polycarbonate Plastic
 - Color: Semi-Transparent
- Raspberry Pi Compute Module 4 (CM4002016) (Home Assistant Yellow only)
 - Broadcom BCM2711
 - 4xCortex-A72 (ARMv8) 64-bit
 - 1.5GHz
 - 2GB LPDDR4-3200 SDRAM with ECC
 - 16GB eMMC Flash memory
 - Gigabit Ethernet PHY supporting IEEE 1588
- Gigabit Ethernet
 - PoE+ IEEE 802.3at-2009 Class 3 or 4 (Home Assistant Yellow Kit PoE only)
- SiLabs MGM210P (MGM210PA32JIA2) Multiprotocol Wireless Module
 - Supported Protocols
 - Zigbee 3.0
 - OpenThread
 - Wireless System-on-Chip
 - 2405-2480 MHz
 - Built-in chip antenna with 1.86 dBi peak-gain
 - TX power up to +20 dBm
 - 32-bit ARM Cortex®-M33 with DSP
 - 1024 kB flash program memory
 - 96 kB RAM data memory
 - Receiver Performance
 - 103.9 dBm sensitivity (1% PER) at 250 kbps O-QPSK DSSS
 - Regulatory Certifications CE/FCC
 - FCC-ID: QOQGM210P
- M.2 Socket M-Key
 - Supports 2230/2242/2260/2280 modules
 - PCle x1
- 2x USB 2.0 Type-A Host ports, 5V up to 1.5A (combined)
- 1x USB-C, supporting USB 2.0/1.1 device mode, power draw <100mA@5V
 - Debug USB-to-Serial adapter mode by default
 - Muxable to CM4 USB 2.0 interface for USB boot (recovery)
- High quality Stereo Audio DAC
 - 2V RMS Line-out on 3.5mm Audio Jack
 - SNR 106dB



- o Dynamic Range 106dB
- RTC backed by CR2032 battery
- Status LEDs (all software controlled)
 - Red (CM4 power LED)
 - Green (CM4 activity LED)
 - Yellow (CM4 status LED)
 - Blue (MGM210P activity LED)
- Power
 - 12V DC Power Jack max. 2.5A (IEC 60130-10 Type A 5.5 mm OD, 2.1 mm ID)
 - o Ethernet: PoE+ IEEE 802.3at-2009 Class 4 (Home Assistant Yellow Kit PoE only)
 - Up to 25.5W PD input at 48V DC, max 600 mA