

# eCCF104M Technical Data



## CPU Support

- onboard Intel Celeron® processor J1900, Quad Core 2GHz

## Main Memory

- onboard type 4GB DDR3L RAM (J1900), un-buffered and non-ECC

## Display Option

- HDMI

## I/O Interface-Front

- LED for power, battery, TX, RX, WWAN, WLAN, GPO1, GPO2
- 1 x RS-232/485 with auto flow control (support 2.5KV isolation protection)
- 2 x Intel® I211 GbE LAN controller (both jumbo frame: 9KB)
- 1 x USB 3.0 ports (900mA per each)
- 1 x USB 2.0 ports (500mA per each)

## I/O Interface-Top

- 1 x HDMI port
- 1 x System reset button
- 1 x 4-in/4-out 5V GPIO via 10-pin terminal block (5V/TTL type)

## Storage Device

- optional mSATA module (no eMMC onboard)

## Expansion Options

- 1 x Full size mini-PCIe socket
- USB & mSATA signal
- 1 x Half size mini-PCIe socket for optional Wi-Fi/4G/3.5G/LTE modules (USB signal & PCIe signal)

## Power Requirement

- Power input: typical +24VDC ±20%
- 1 x Optional 24V, 60W power adapter

## Dimensions

- 56.5mm (W) x 100mm (D) x 130mm (H)

## Construction

- Aluminum and metal chassis with front access design

## Environment

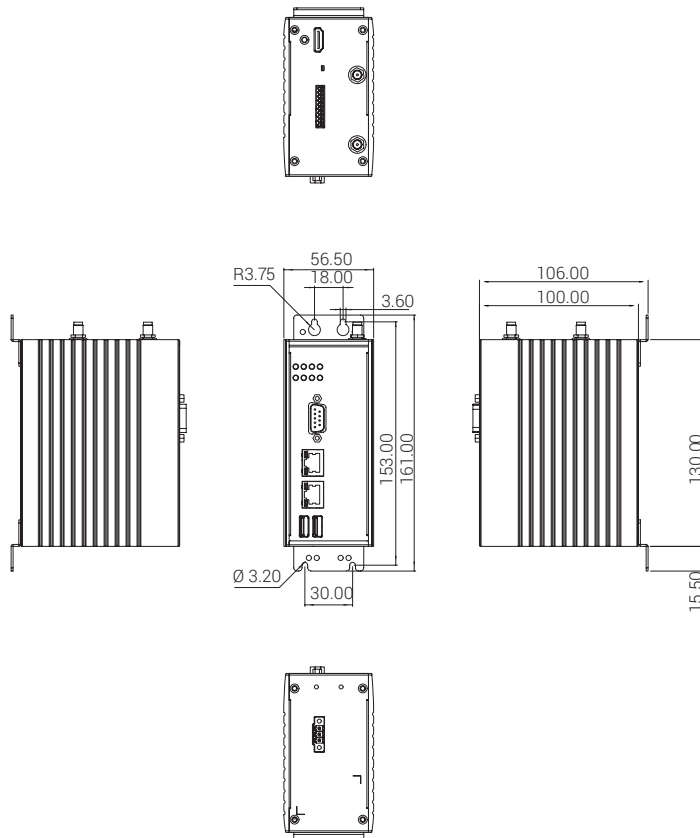
- Operating temperature: Ambient with air flow: -5~50°C (according to IEC60068-2-1, IEC60068-2-2, IEC60068-2-14)
- Storage temperature: -20°C~80°C
- Relative humidity: 10%~93% (non-condensing)
- Shock protection: mSATA/eMMC:50G,halfsine,11ms,IEC60068-27
- Vibration protection w/ mSATA or eMMC condition: Random: 2Grms@5~500Hz,IEC60068-2-64 Sinusoidal: 2Grms@5~500Hz,IEC60068-2-6

## Certifications

- CE Approval EN61000-6-2 EN61000-6-4
- FCC Class A

## Support OS

- Windows 10 IoT Enterprise, 64-bit
- Windows Embedded Standard 7, 32-bit/64-bit
- Linux Kernel version 3.8.0
- Ubuntu 14.04



## Ordering Information

Model	Part Number	Description
eCCF104M	+70ECCF104M	Intel® Celeron® (J1900) Factory Automation Fanless System in Palm Size