

# C88-M8M

## u-blox GNSS application board

### Highlights

- Adaptor board for evaluating EVA-M8M in NEO footprint
- on-board EVA-M8M module

### Product description

The C88-M8M GNSS application board is designed for easier evaluation and design-in of u-blox EVA-M8M module in existing NEO based products.

The C88-M8M integrates the EVA-M8M GNSS module into a NEO form factor adaptor board (i.e. with the same dimensions and pin-out as the NEO-6M, NEO-7M and NEO-M8M module families). The C88-M8M application board allows straightforward integration of the u-blox EVA-M8M in customers' existing end products based on the u-blox NEO-xM GNSS modules. It enables fast verification of the EVA-M8M functionalities and performances before the design-in.

u-blox application boards are intended as a means to help system integrators to develop their own GNSS-enabled end products, and are primarily sold in sample quantities. The C88-M8M is also available on reels. u-blox assumes no design services for this purpose, nor warranties regarding functionality and performance.

### Features

Receiver type	72-channel u-blox M8 engine GPS/QZSS L1 C/A, GLONASS L10F, BeiDou B1I, Galileo E1B/C SBAS L1 C/A: WAAS, EGNOS, MSAS, GAGAN
Memory	Onboard ROM
RTC crystal	Built-in <sup>1</sup> for easier migration from NEO
Supported antennas	Active and passive <sup>2</sup>

<sup>1</sup> For EVA-M8M design-in the RTC crystal is optional

<sup>2</sup> An additional LNA in front of C88-M8M is needed to achieve the performance values shown in the EVA-M8M Data Sheet

### Environmental data, quality & reliability

Operating temp.	-40° C to 85° C
Storage temp.	-40° C to 105° C

### Electrical data

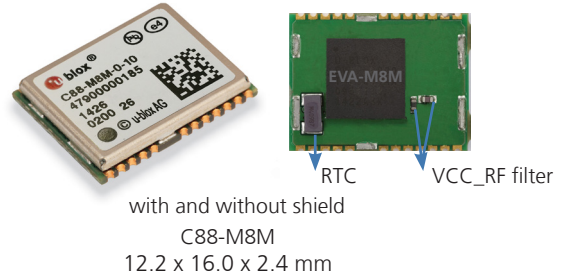
Supply voltage	1.65 V to 3.6 V
Power Consumption (default 2 concurrent)	22 mA @ 3 V (Continuous) 5.3 mA @ 3 V (Power Save mode, 1 Hz)
Backup supply	1.4 to 3.6 V

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### Pin-out

C88 Top View			
13	GND	GND	12
14	Reserved	RF_IN	11
15	Reserved	GND	10
16	Reserved	VCC_RF	9
17	Reserved	RESET_N	8
18	SDA	VDD_USB	7
19	SCL	USB_DP	6
20	TxD	USB_DM	5
21	RxD	EXTINT	4
22	V_BCKP	TIMEPULSE	3
23	VCC	D_SEL	2
24	GND	Reserved	1

### Interfaces

Serial interfaces	1 UART 1 USBV2.0 full speed 12 Mbit/s 1 SPI (optional) 1 DDC (I2C compliant)
Digital I/O	Configurable timepulse 1 EXTINT input for Wakeup
Timepulse	Configurable 0.25 Hz to 10 MHz
Protocols	NMEA, UBX binary, RTCM

### Deliverable

Schematic (on request)

For recommendations on migration from NEO-xM to EVA-M8M (C88-M8M) see the EVA-M8M Hardware Integration Manual.

### Support product

EVK-M8MEVA u-blox M8 Evaluation Kit for EVA-M8M (crystal)

### Ordering information

C88-M8M-0 EVA-M8M application board adaptor EVA-M8M-0 - NEO, LCC, 12.2x16 mm, 250 pcs/reel

Available as samples and tape on reel

### Contact us

For contact information, see [www.u-blox.com/contact-us](http://www.u-blox.com/contact-us).