IoT Complete ECB02 family of IoT hardware

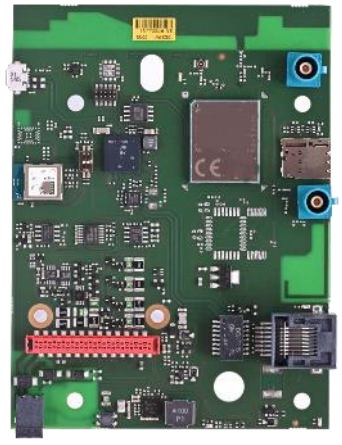
Data Sheet

With Telenor IoT Complete you overcome the complexity of traditional, multi-supplier connectivity solutions. Instead, your IoT infrastructure is built and managed under one roof: from device integration to end-user interface, and everything in between.

As an integral part of the IoT Complete service, the 02 range of IoT hardware is designed for flexibility and cost efficiency, while targeting a wide range of applications. The platform offers a common architecture in terms of key components and capabilities but is offered in different form factors catering to both stand-alone and embedded integration scenarios.

ECB02A

- Manufacturing-friendly form factor
- FAKRA Connectors
- Antennas integrated in main PCB



ECB02B

- Optimized for size
- Integrated antennas

STA02B

- Stand-alone device for DIN-rail or bolt-on

ECB02C

- Module intended to be soldered on Customer's electronics to allow maximum flexibility

telenor IoT

Functions and features	ECB02A	ECB02B	STA02B	ECB02C
MCU	ARM Cortex M7 @ 500MHz			
RAM	1Mb			
Flash	4Mb			
Modem	LTE Cat M1 or LTE Cat 4			
SIM	Soldered MFF2 supporting eUICC			
Plastic SIM holder	Yes, 4FF	No	No	No
Input voltage	12-56VDC or 24/48VDC Power over Ethernet			3.7-4.2 VDC
GNSS	GNSS embedded in cellular modem. Optionally dedicated GNSS or RTK GNSS	GNSS embedded in cellular modem.		
Onboard sensors	Accelerometer, Temperature			
Onboard antennas	Cellular, GNSS, BLE/Wifi			N/A
Dimensions	120 x 90	80 x 71	85 x 94 x 40	57.9 x 45.2
Certifications	CE, FCC, IC	CE, FCC, IC	CE, FCC, IC	CE, FCC, IC

The devices offer numerous interfaces and connectors to allow integration with Customer's products. Detailed pinout and configuration can be adapted to customer requirements at volume.

Connector and interfaces	ECB02A	ECB02B	STA02B	ECB02C
RJ45 Connector	Ethernet incl. PoE	Ethernet incl. PoE	Ethernet incl. PoE	ECB02C is intended to be soldered onto a larger PCB, and hence does not include connectors. However, the corresponding interfaces can be accessed via solder points.
RJ25 Connector (alternative to RJ45)	CAN or UART, Power supply, GPIO	CAN or UART, Power supply, GPIO	N/A	
Micro USB (AB)	USB 2.0			
26-pin MM connector	Configurable selection of CAN, RS485, RS232, 4xUART, 3xI2C, 2xSPI, 4xDIO, 2xADC, 2xPWM, Sensor feed, Power			
Power connector	Spring terminal			
Short-range radio	BLE/Wifi			
Status LEDs	LEDs to indicate integration and device status, and cellular signal strength.			
Antenna connectors	uFL or FAKRA for Cellular and GNSS	uFL for Cellular and GNSS	SMA for Cellular and GNSS	uFL for Cellular and GNSS