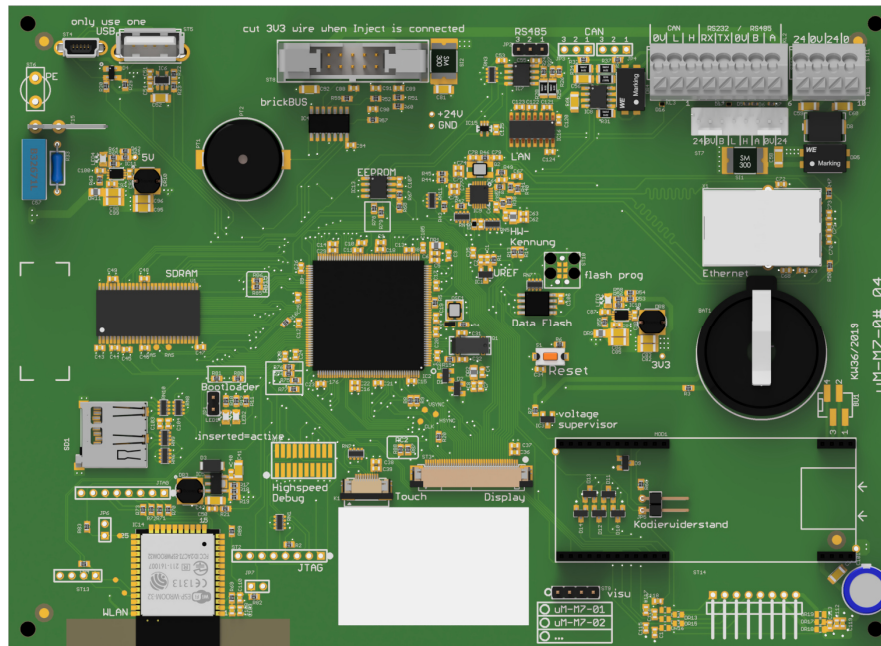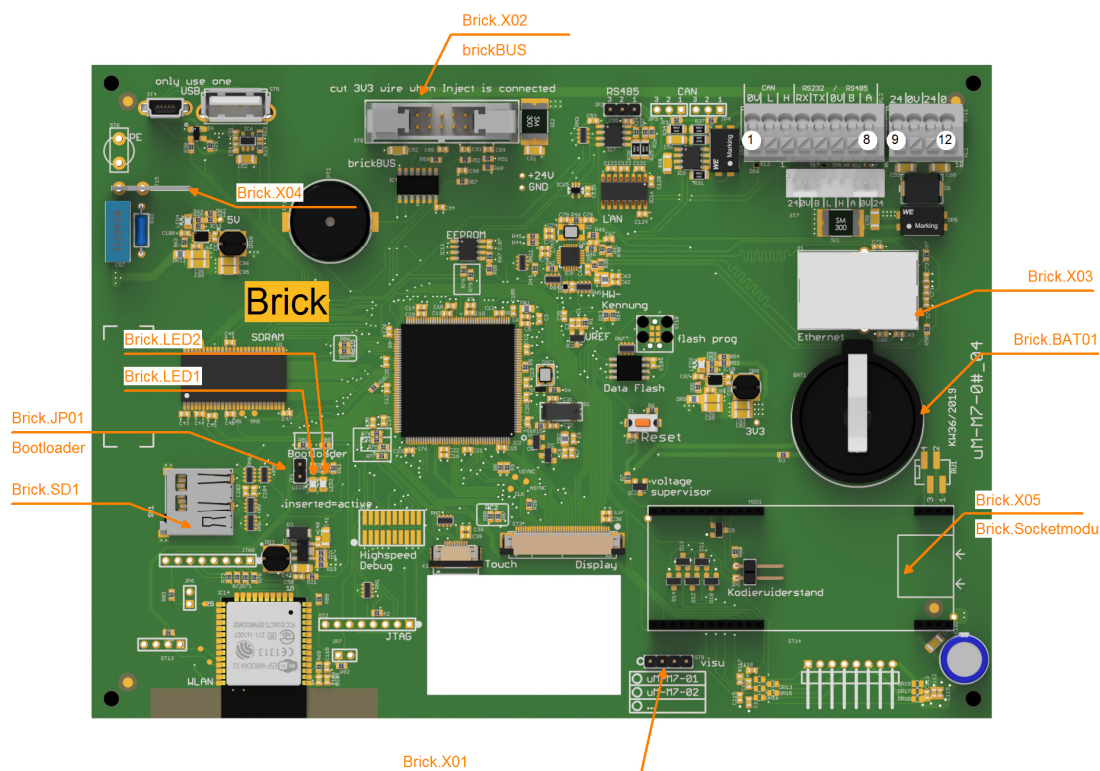# CBB_CPU-uniMIND-M7-02

1.1 Description

1.2 Connectors and Indication-/Operation-Elements

1.2.1 Connectors (X)

Hereinafter the necessary connections, connectors and there specification for operation are listed. The location of a specific connector is documented with the ID (left coloumn) in the previous Illustrations.

ID	Model	Usage	Num. of term.	Model / Series	connection	elec. usage
Brick.SD01	SD card slot	Data storage	-	µSD	for SD, SDHC	-
Brick.X01	Box connector	emBRICK I/O-Bus	10		-	brickBUS master
Brick.X01	Pin connector	PC visualisation	4	2,54mm	only for service	TTL-Level (3.3V) 38400 Baud
Brick.X03	Plug	LAN		RJ45	-	Ethernet IEEE 802.3
Brick.X04	Flachstecker	PE-Connection	1	6,3x0,8mm liegend	min. 1,5mm²	
Brick.X05	Buchsenleiste	Com. module socket	32	2mm		Socket-Modem

1.2.2 Jumper overview (JP)

The individuell jumpers, their combination to logical jumper groups and their usage are stated below. The location of individual jumpers is determined through the jumper ID (left coloumn) in the previous Illustrations.

ID	Jumper Block	Usage
Brick.JP01	JP-Bootloader	Activation of Bootloader

1.2.3   Jumpergroups and configuration

Hereafter possible jumper groups settings are described. They refer to jumper-ID of the previous listings. A "o" symbolises a disconnected jumper, a "x" symbolises a connected jumper.

Jumper Block	Selections	Effect
JP-Bootloader	A: JP=o B: JP=x	A: Bootloader not active (normal state) B: Bootloader activie When the Bootloader is activated, a new firmware from a data carriere (SD card) can be programmed to the system. The detection of this jumper is only done when starting (power on, reset) the system.

1.2.4   LED Indications

ID	Type	Specification	Type / Usage
Brick.LED01	SMD-LED	red	Bootloader-LED
Brick.LED02	SMD-LED	green	System-Status-LED Blinken mit 1s ein, 1s aus signalisiert einen korrekten Systemstatus

1.3 Input-/Output Scheme

The following diagram shows the adaption of the control unit. To avoid overlapping, some wires are displayed interrupted and dashed.

no DocCompAdapt available

1.4 Technical Data

1.4.1 User Notes

• Blinking behavior StateLED:

Each Morse code is 3 seconds long!

not initialized = flashing continuously at approx. 5Hz

no communication = short-long-short

too little communication = short-short-short

disturbed communication = short-long-long

OK = continuous flashing at approx. 1Hz (0.6-1.5Hz)

1.5 History

On the following page you will find a list of changes that have been made to the product.

1.5.1 History

Date	Entry scope (HW, SWappl, SWapi, Release)	Entry type (Enhancement, Improvement, Bugfix, Release)	Version	Status (development, implemented, tested)	Responsible	Reason for the modification	Items of the modification	Impact for (end-)customer	Comment	location in model/source
xxxx-xx-xx		Release	0.99	tested	NSt					

For questions please contact:

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