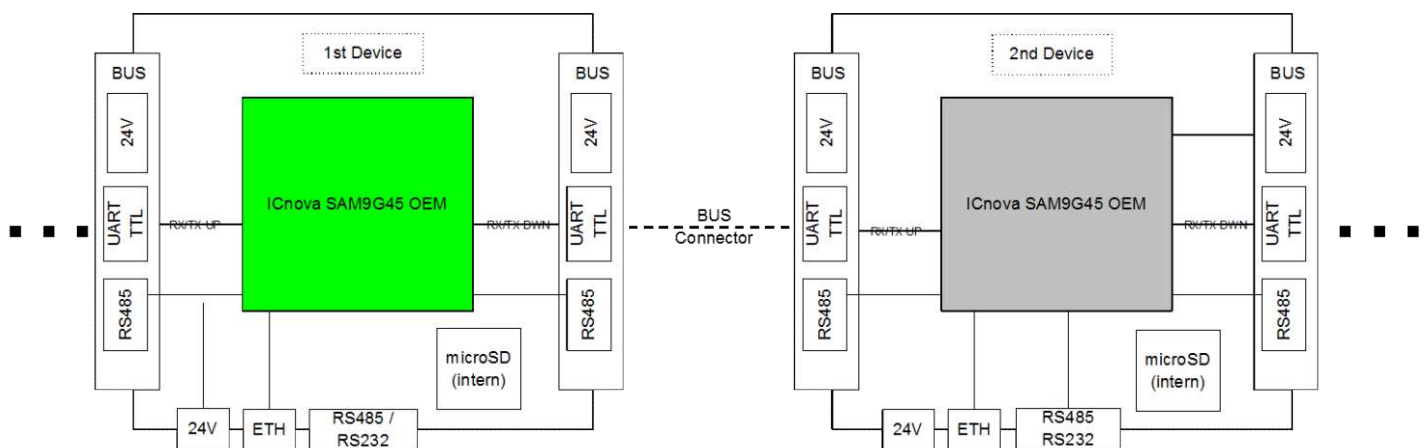
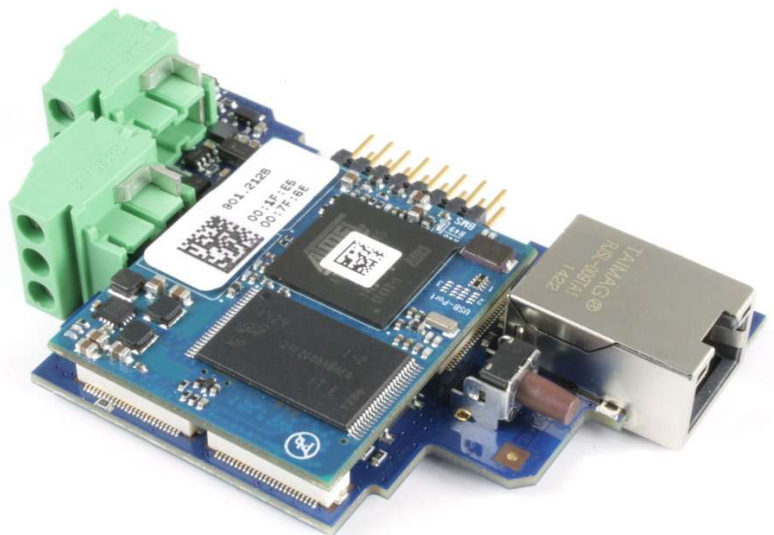


DIN Rail CPU 10

- ICnova SAM9G45-OEM CPU module
 - ARM926EJS CPU
 - 400MHz CPU Clock
 - 128MB DDR2-RAM
 - 1MB NOR-Flash
 - 256MB NAND-Flash
- µSD-Slot (internal)
- 1x RS485 interface at BUS connector
- 1x RS485, optional RS232
- 2x UART, 1xUplink and 1xDownlink
- 1x 10/100 Base-T-Ethernet-Port
- 5 User-LEDs
- Modules queueable by BUS connector
- Temperature -40°C to +85°C
- Humidity 0..90%
- Supply voltage: 12 – 24 VDC
- DIN hat rail enclosure: 1Unit
- Additional hat rail modules available
- Linux BSP with toolchain
- Software sources are deliverable for free



circuit diagramm

Pin list G45 OEM:

IO-PORT	Name	Pin #	IO-PORT	Name	Pin #
PA0	MCI_CLK	198	PA26	ETH_RESETN	27
PA1	MCI_CDM	200	PA27	ETH_TX_ER	28
PA2	MCI_D0	202	PA28	ETH_RX_CLK	29
PA3	MCI_D1	204	PA29	ETH_CRS	30
PA4	MCI_D2	206	PA30	ETH_COL	31
PA5	MCI_D3	208	PB4	USART1_TXD (RS485 Host)	185
PA6	ETH_TXD2	26	PB5	USART1_RXD (RS485 Host)	181
PA7	ETH_TXD3	28	PB6	USART2_TXD	190
PA8	ETH_RXD2	22	PB7	USART2_RXD	192
PA9	ETH_RXD3	38	PB8	USART3_TXD	75
PA10	ETH_TXD0	34	PB9	USART3_RXD	73
PA11	ETH_TXD1	24	PB12	UART-DBG_RXD	193
PA12	ETH_RXD0	42	PB13	UART-DBG_TXD	195
PA13	ETH_RXD1	40	PB17	USART0_RTS (RS485 Ext.)	186
PA14	ETH_TX_EN	194	PB18	USART0_RXD (RS485 Ext.)	180
PA15	ETH_RX_DV	196	PB19	USART0_TXD (RS485 Ext.)	182
PA16	ETH_RX_ER	151	PD0	LED 3	96
PA17	ETH_TX_CLK	149	PD1	LED 1	92
PA18	ETH_MDC	147	PD2	LED 2	90
PA19	ETH_MDIO	12	PD3	LED 4	88
PA20	SDA	8	PD4	LED 5	98
PA21	SCL	16	PD16	USART1_RTS (RS485 Host)	187
PA22	FT/RSTN	36	PD28	CNT_IN (buffered S0)	15
PA25	ETH_PDWN	26	PE31	SD_CD	47

BUS connector:

- | | |
|------------------|-------------------|
| 1 – NC | 2 – NC |
| 3 – +24V | 4 – +24V |
| 5 – GND | 6 – GND |
| 7 – RS485 A Host | 8 – RS485 B Host |
| 9 – GND | 10 – GND |
| 11 – NC | 12 – NC |
| 13 – GND | 14 – GND |
| 15 – UART2 TXD | 16 – UART-DBG RXD |
| 17 – UART2 RXD | 18 – UART-DBG TXD |



Pinning of BUS connector

Screw terminals:

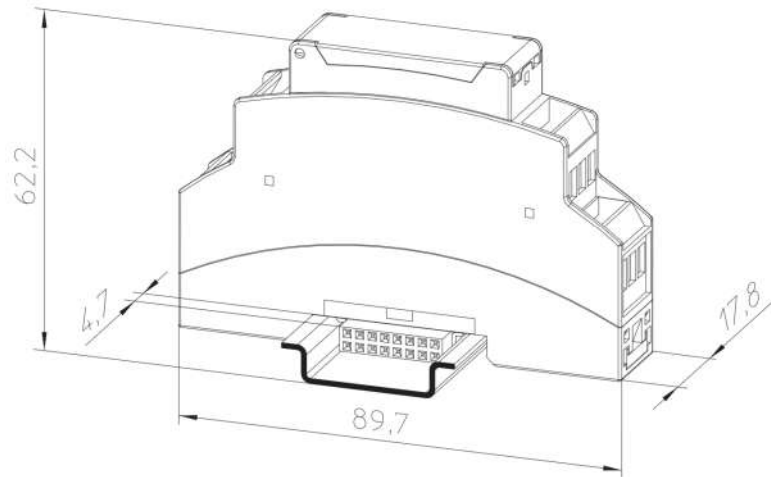
- | | |
|-------------|-------------------|
| PWR: | RS485 EXT: |
| 1 – +24V | 1 – B-EXT |
| 2 – GND | 2 – A-EXT |
| 3 – S0 | 3 – GND |



Pinning screw terminals



PCB view top/bottom



Contact us

In-Circuit GmbH
Boltenhagener Str. 124
D-01109 Dresden
www.in-circuit.de
info@in-circuit.de

Bestellinformationen	
Beschreibung	Artikelnummer
DIN-Rail CPU 10 - SAM9G45 CPU Modul, 1TE	901.212
Micro SD-Karte 1GB - suitable µSD-Card for CPU modules	104.042

Document Revisions

Version	Date	Description	Editor
A	22.08.2013	Erstausgabe	Träger
B	09.09.2013	Pinliste hinzugefügt, Bestellinformationen ergänzt	Träger
C	16.09.2013	Pinbelegung Schraubklemmen berichtigt	Träger
D	30.11.2015	Translated, corrected pinnings	Träger