

# Schematic

DH electronics GmbH

Project: DHCOR STM32MP13  
Development Board

PCB number: 719-100

Released: 16.11.2023

Created: MA/AN

Notes:

I2C Adressen (7-bit): U4 TPM - 0xD4 (I2C2)

## Content:

Page 01: Cover sheet

Page 02: Blockdiagram

Page 03: Power

Page 04: STM32MP13


Page 05: Ethernet 1

Page 06: Ethernet 2

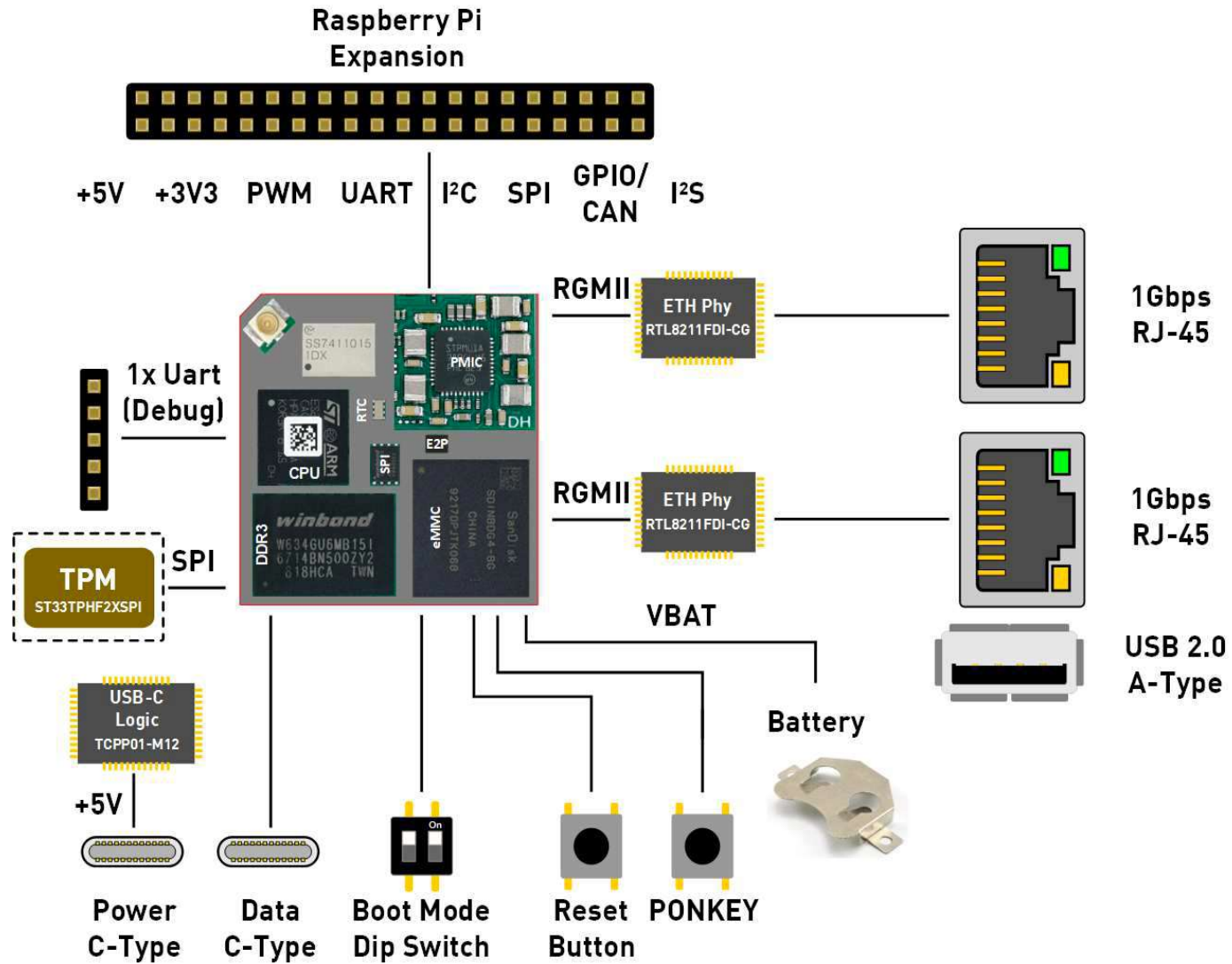
Page 07: USB-A/USB-C/VBAT/Clock

Page 08: MISC

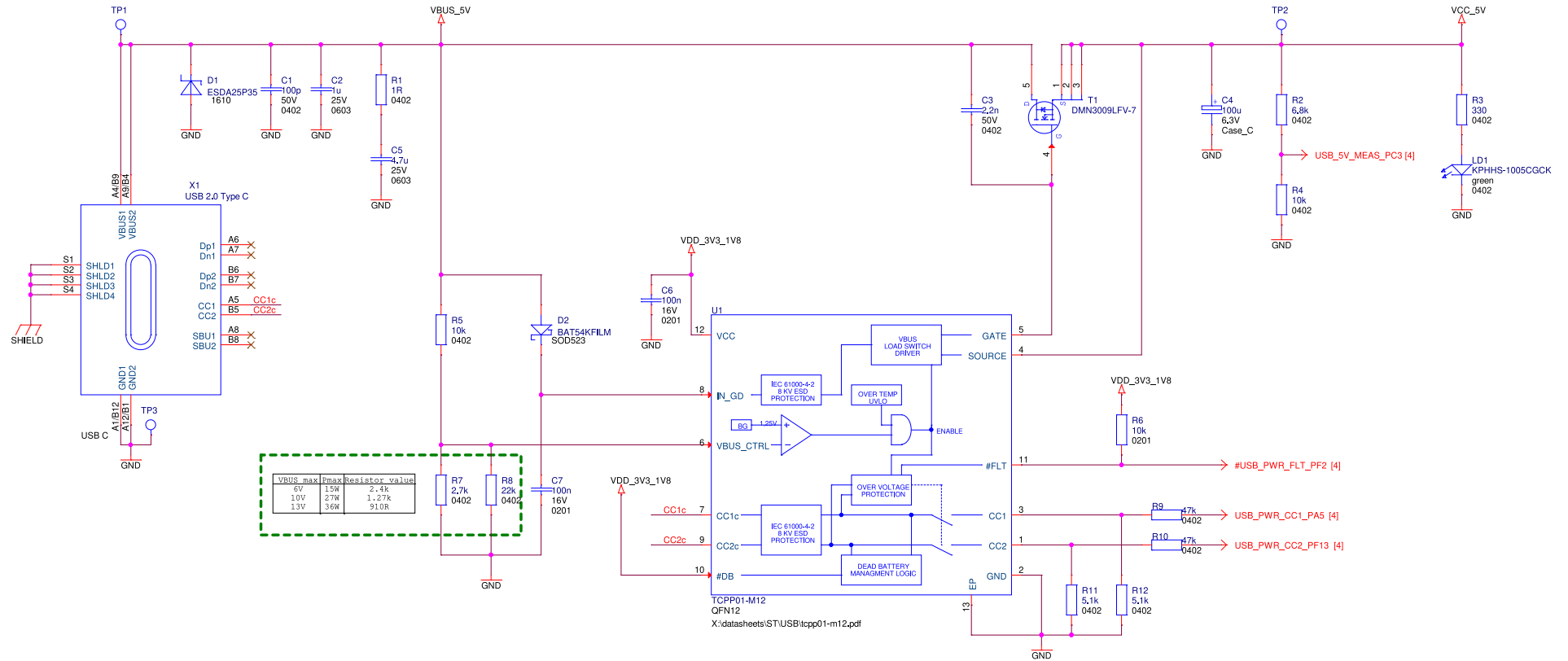
Page 09: Changelog

	Project: DHCOR STM32MP13 Development Board	
	Description: Cover Sheet	
PCB number: 719-100	Revision: R06	
Variant: HS00035	Page: 1 of 9	

Block diagram

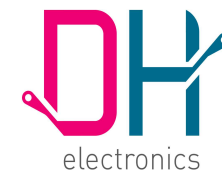
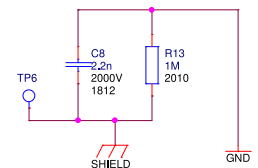


# Power Supply



## EMV Capacitors

C49	C50	C51	C52	C53	C54	C55	C56	C81	C82	C83
100n	100n	100n	100n	100n	100n	100n	100n	100n	100n	100n
16V	16V	16V	16V	16V	16V	16V	16V	16V	16V	16V
0201	0201	0201	0201	0201	0201	0201	0201	0201	0201	0201
C57	C58	C59	C60	C61	C62	C63	C64	C84	C85	C86
100n	100n	100n	100n	100n	100n	100n	100n	100n	100n	100n
16V	16V	16V	16V	16V	16V	16V	16V	16V	16V	16V
0201	0201	0201	0201	0201	0201	0201	0201	0201	0201	0201
C65	C66	C67	C68	C69	C70	C71	C72	C87	C88	C89
100n	100n	100n	100n	100n	100n	100n	100n	100n	100n	100n
16V	16V	16V	16V	16V	16V	16V	16V	16V	16V	16V
0201	0201	0201	0201	0201	0201	0201	0201	0201	0201	0201
C73	C74	C75	C76	C77	C78	C79	C80	C90	C91	C92
100n	100n	100n	100n	100n	100n	100n	100n	100n	100n	100n
16V	16V	16V	16V	16V	16V	16V	16V	16V	16V	16V
0201	0201	0201	0201	0201	0201	0201	0201	0201	0201	0201



Project: DHCOR STM32MP13 Development Board  
 Description: USB-C / Power

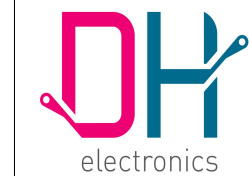
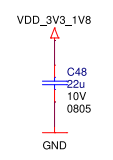
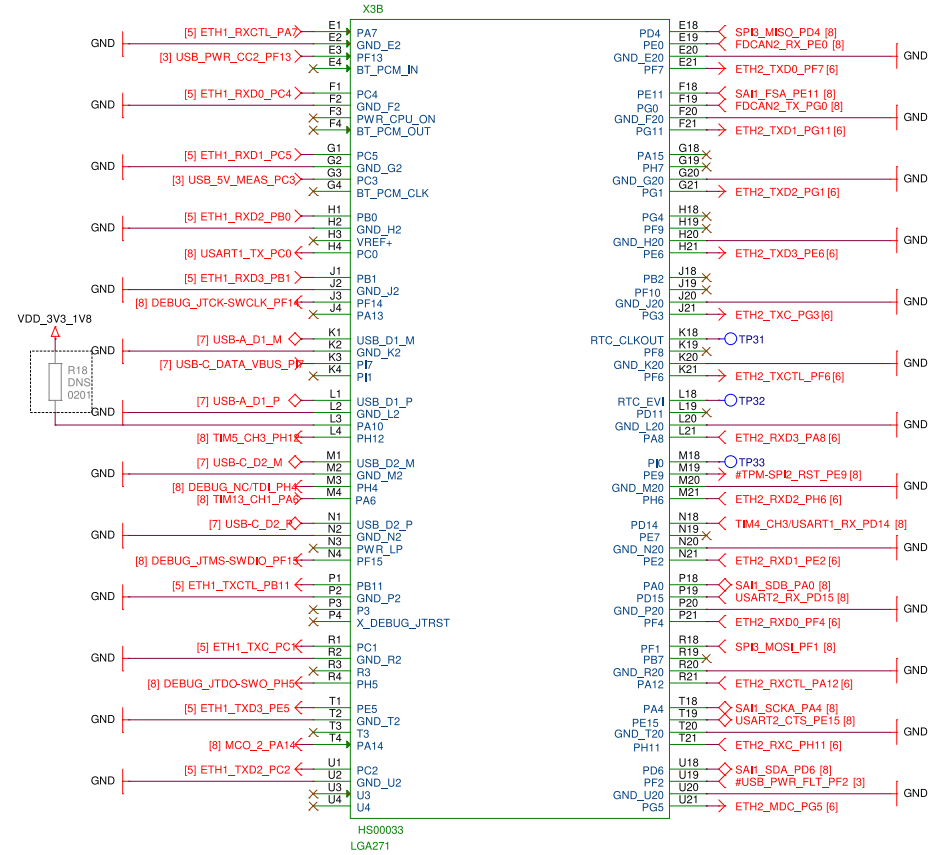
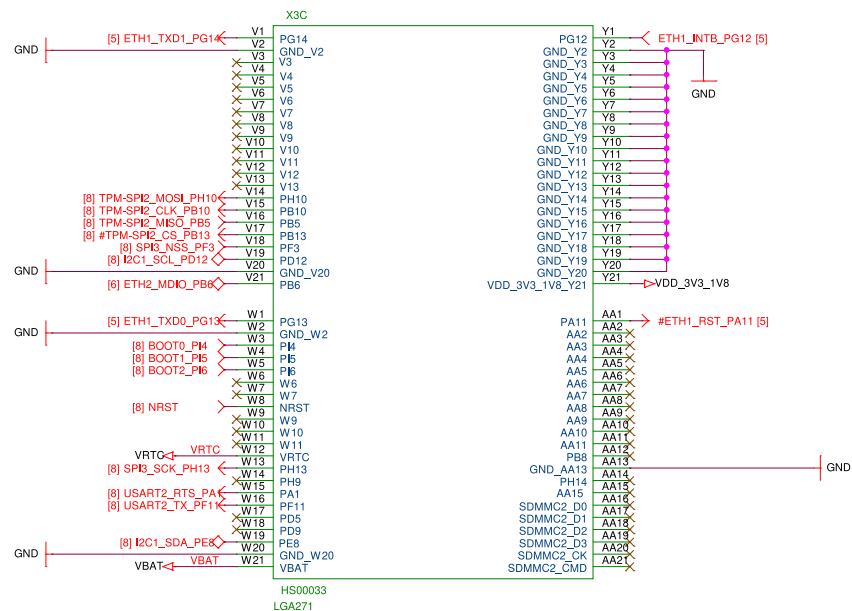
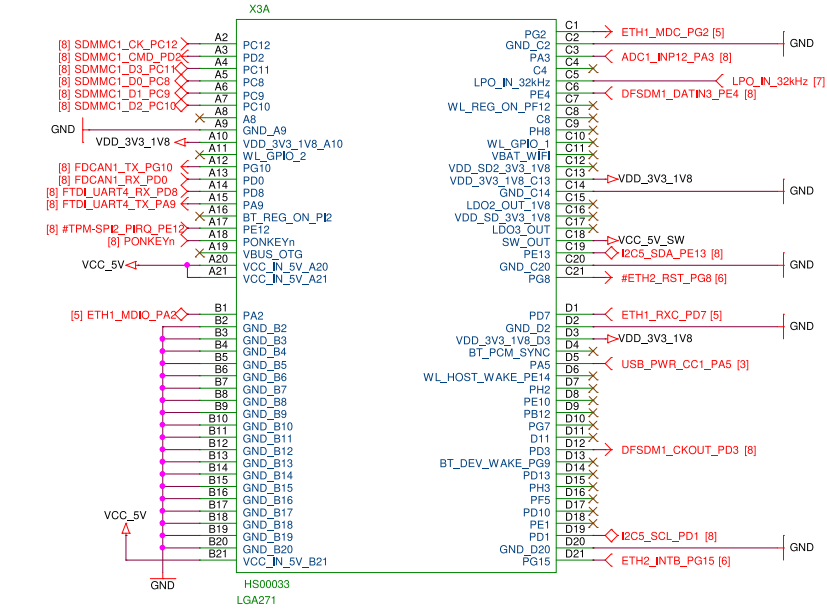
PCB number: 719-100

Revision: R06

Variant: HS00035

Page: 3 of 9

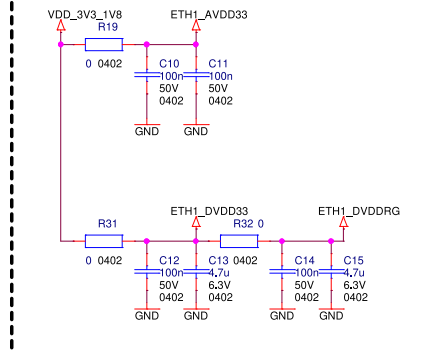
# STM32MP13



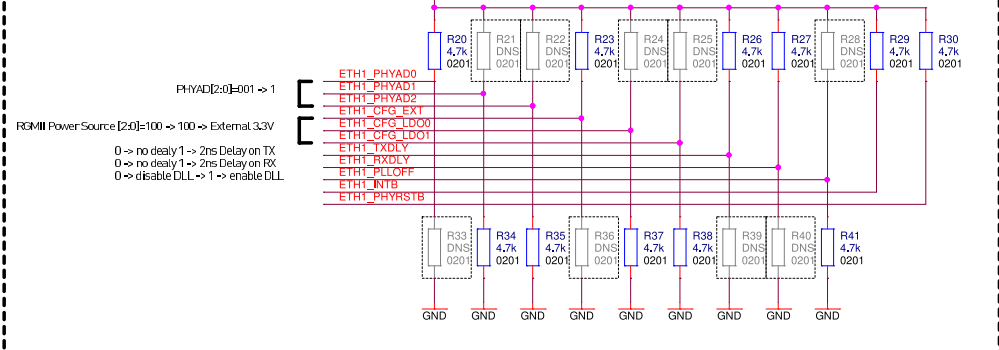
Project:	DHCOR STM32MP13 Development Board	
Description:	STM32MP13	
PCB number:	719-100	Revision: R06
Variant:	HS00035	Page: 4 of 9

# Ethernet 1

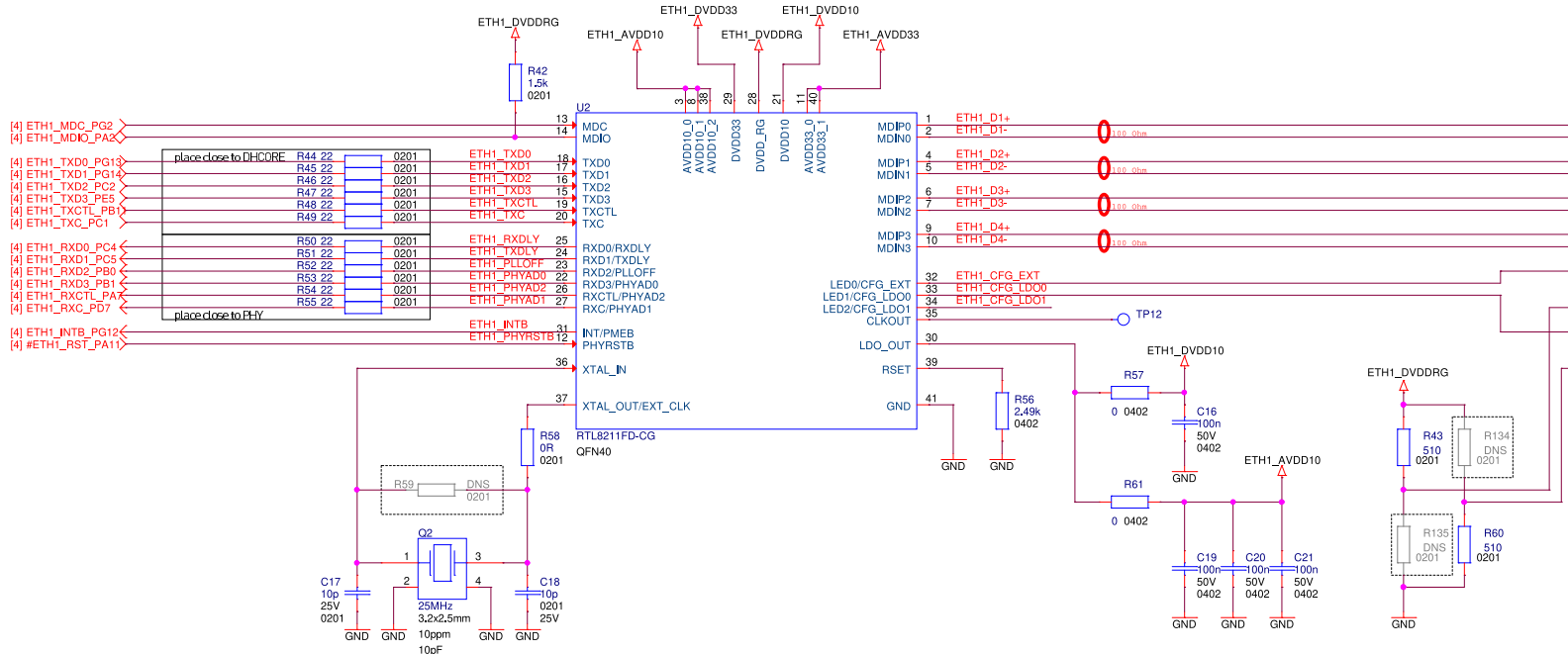
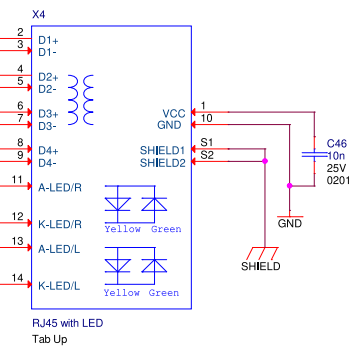
## Power



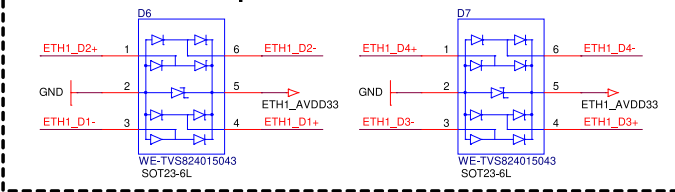
## Configuration



## Gbit Ethernet RJ-45 Connector

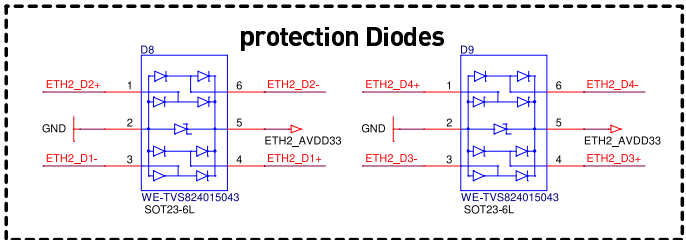
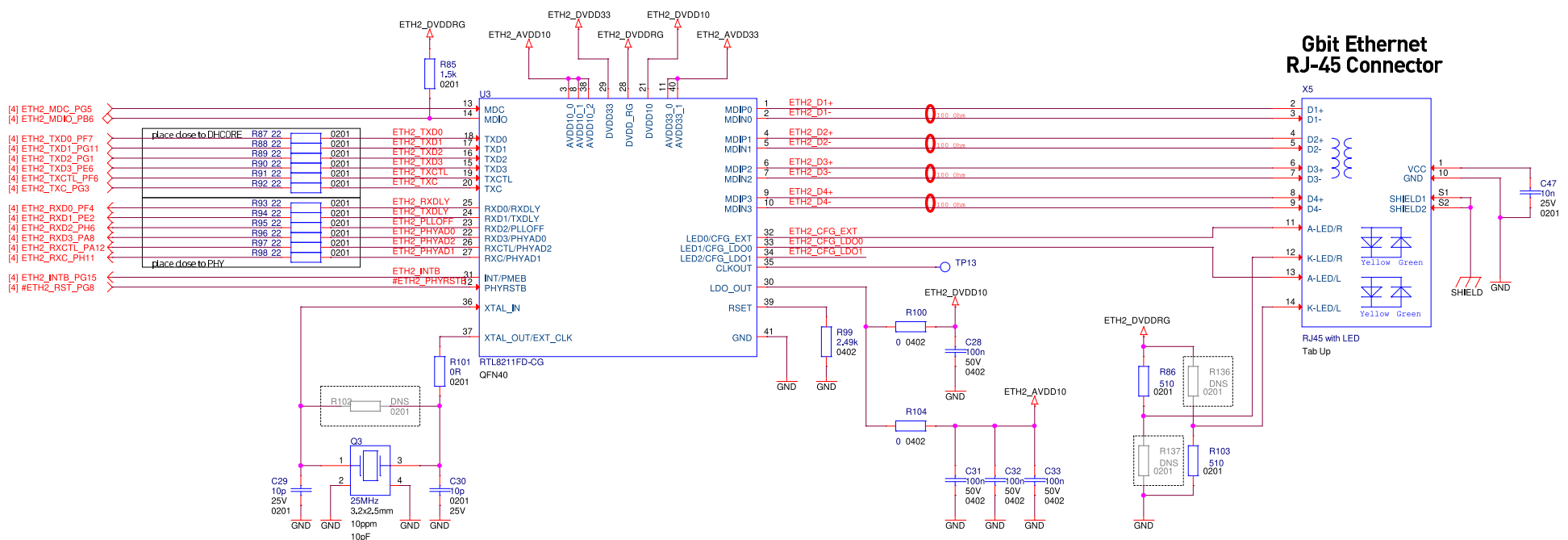
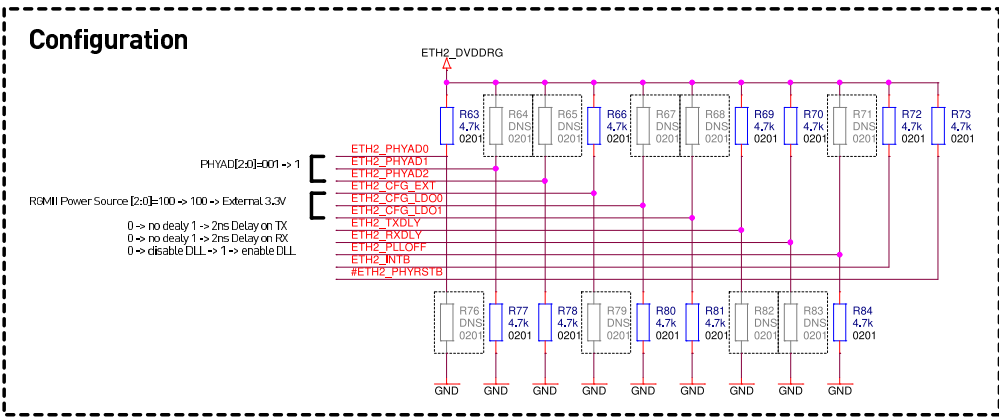
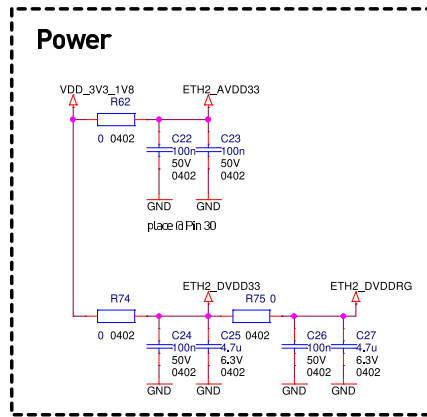


## protection Diodes



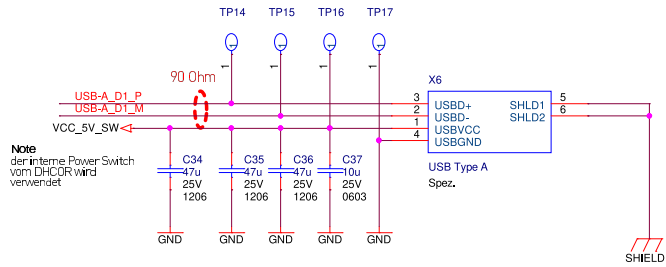
	Project: DHC0R STM32MP13 Development Board
	Description: Ethernet 1
	PCB number: 719-100
Variant: HS00035	Revision: R06
Page: 5 of 9	

# Ethernet 2



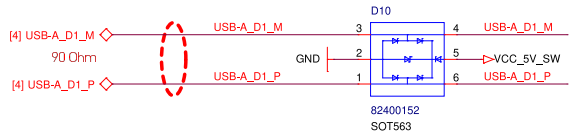
Project: DHCOR STM32MP13 Development Board	
Description: Ethernet 2	
PCB number: 719-100	Revision: R06
Variant: HS00035	Page: 6 of 9

### USB-A

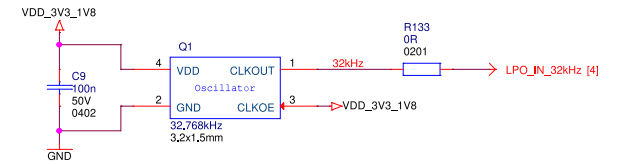


Note  
der interne Power Switch  
vom DHCOR wird  
verwendet

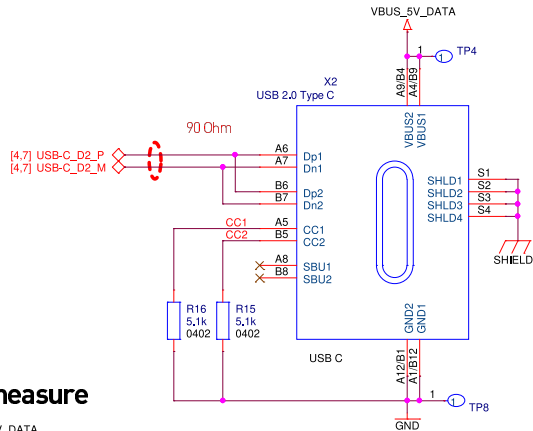
### protection Diodes



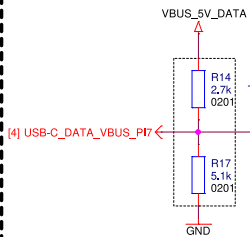
### WIFI Clock



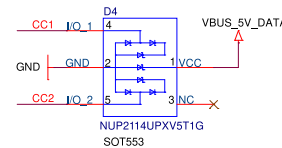
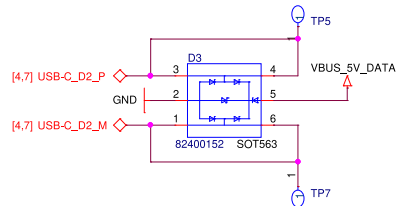
### USB-C Data



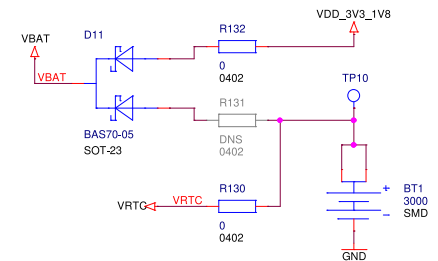
### Voltage measure



### protection Diodes



### VBAT/VRTC Supply



	mount	not mount
DHCOR with RTC	R130	R131
DHCOR without RTC	R131	R130



Project: DHCOR STM32MP13 Development Board  
Description: USB-A

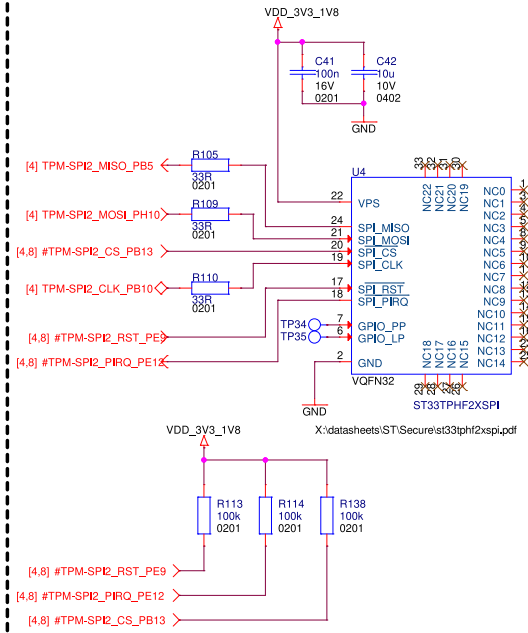
PCB number: 719-100

Revision: R06

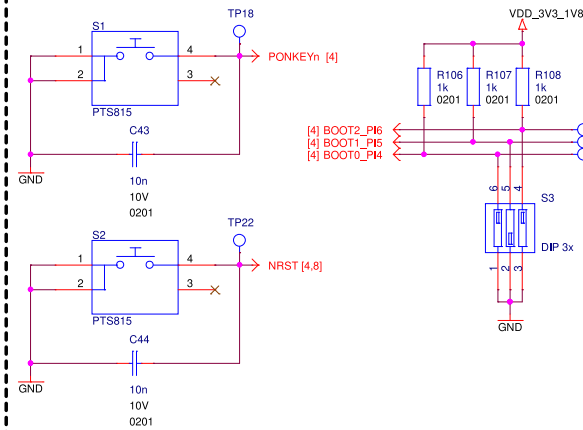
Variant: HS00035

Page: 7 of 9

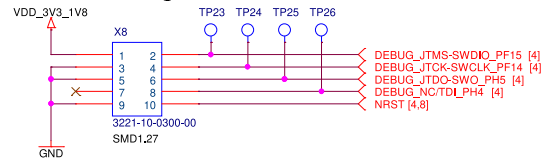
## Trusted Platform Module (TPM)



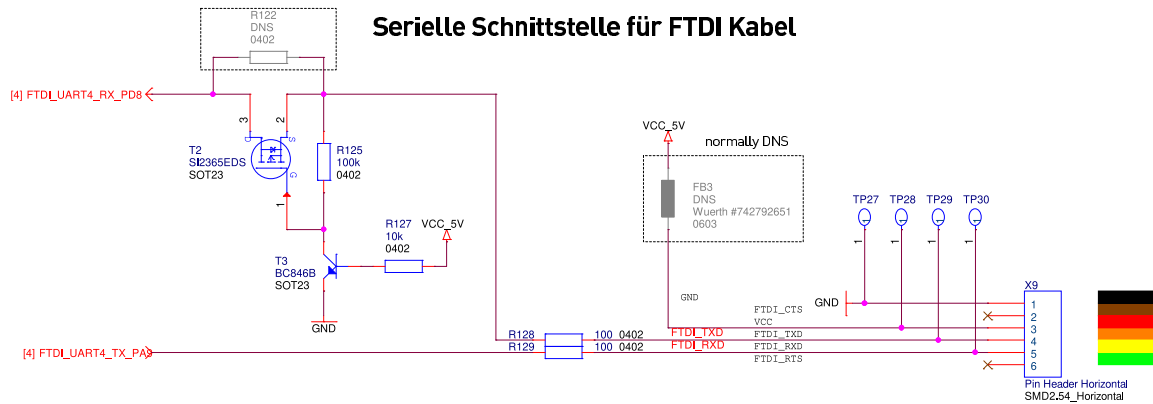
## Reset, PONKEYn und Boot-Mode



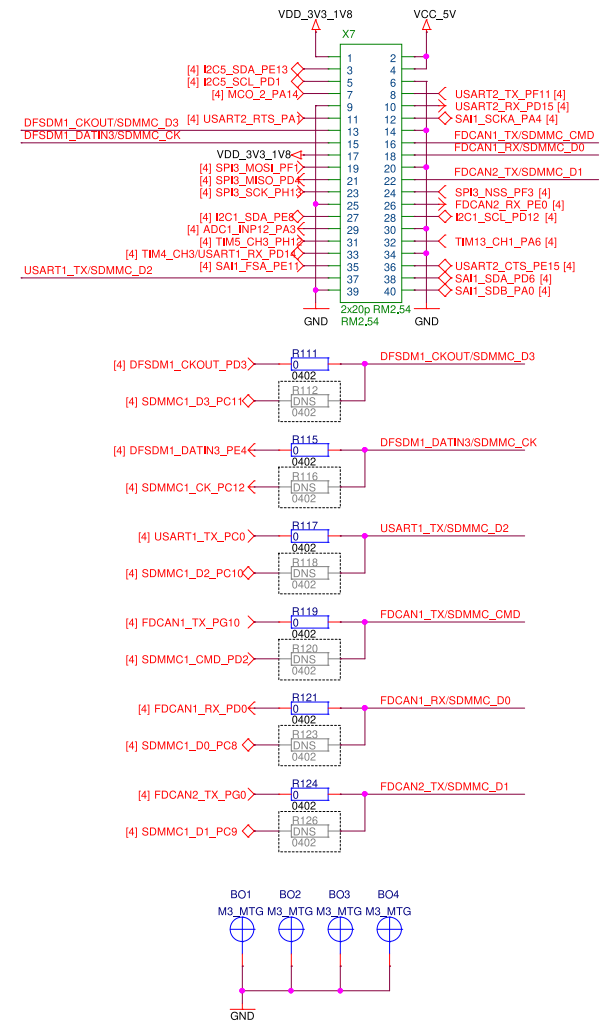
## Debug



## Serielle Schnittstelle für FTDI Kabel



## RPi Expansion Stecker



Project:	DHCOR STM32MP13 Development Board		
Description:	MISC		
PCB number:	719-100	Revision:	R06
Variant:	HS00035	Page:	8 of 9