

1

2

3

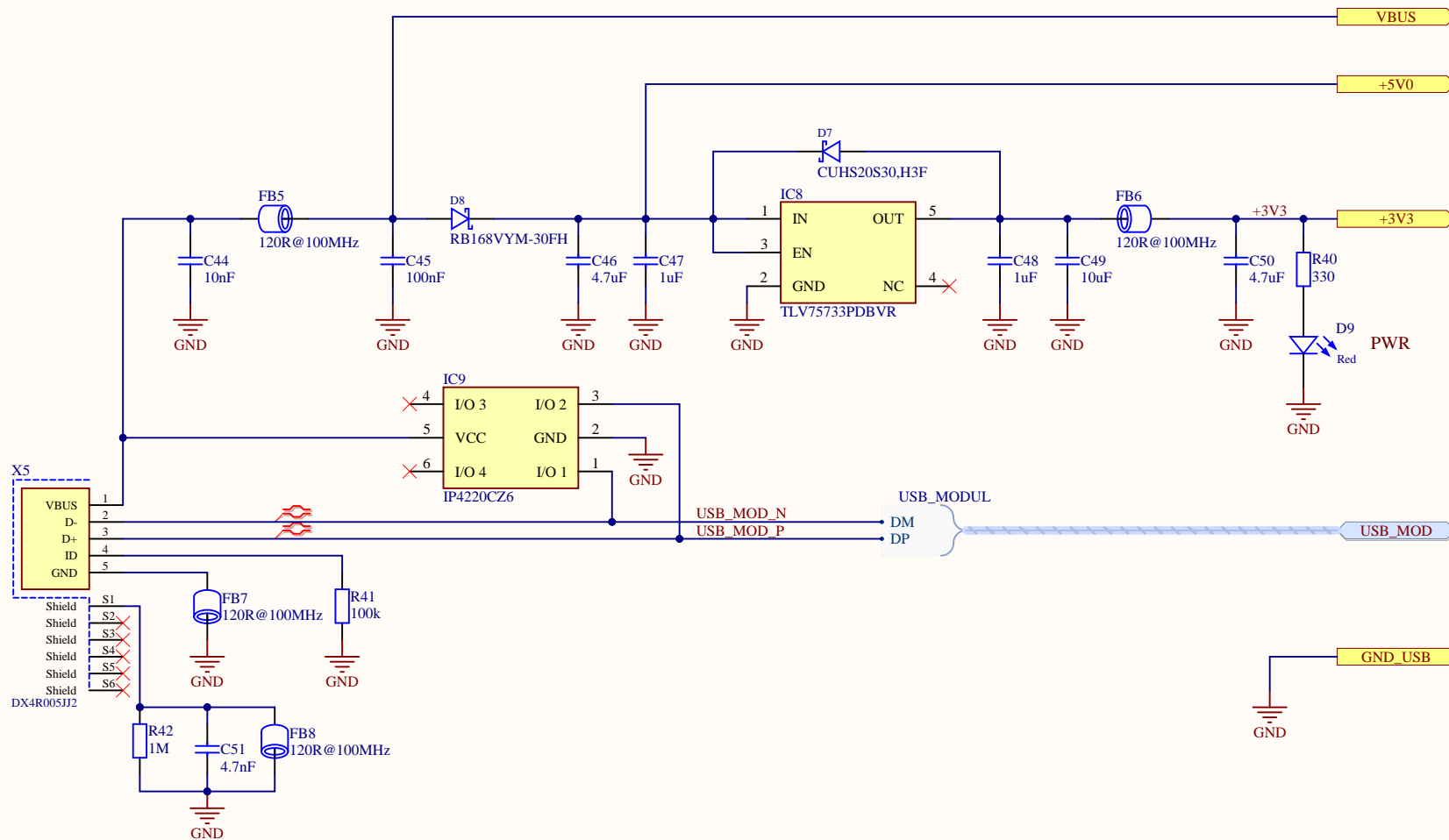
4

A

B

C

D



CompanyName: Panasonic Industrial Devices Europe

Size: A4

Number: 4

Revision: \*

Date: 11.11.2021

Time: 11:06:40

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File: USB INTERFACE\_POWER SUPPLY.SchDoc

**Panasonic**

1

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3

4

1

2

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4

GPIO\_MOD

P0.02 AIN0  
P0.03 AIN1  
P0.04 AIN2  
P0.05 UART\_RTS  
P0.06 UART\_TX  
P0.07 UART\_CTS  
P0.08 UART\_RX  
P0.09 NFC1  
P0.10 NFC2  
P0.11 P0.11  
P0.12 SPI1\_nSS  
P0.13 SPI1\_MOSI  
P0.14 SPI1\_MISO  
P0.15 SPI1\_SCK  
P0.16 P0.16  
P0.17 P0.17  
P0.19 P0.19  
P0.20 P0.20  
P0.21 P0.21  
P0.22 P0.22  
P0.23 P0.23  
P0.24 P0.24  
P0.25 P0.25  
P0.26 I2C\_SDA  
P0.27 I2C\_SCL  
P0.28 AIN4  
P0.29 AIN5  
P0.30 AIN6  
P0.31 AIN7  
P1.00 P1.00  
P1.01 UART4\_TX  
P1.02 UART4\_RX  
P1.03 P1.03  
P1.04 P1.04  
P1.05 P1.05  
P1.06 P1.06  
P1.07 P1.07  
P1.08 P1.08  
P1.09 P1.09  
P1.10 P1.10  
P1.11 P1.11  
P1.12 P1.12  
P1.13 P1.13  
P1.14 P1.14  
P1.15 P1.15

GPIO\_MOD

USB\_MODUL

USB\_MOD

UART\_RTS

UART\_TX

UART\_RX

M\_P

M\_N

DM

AIN0 A6  
AIN1 A5  
AIN2 A3  
UART\_RTS A4  
AIN4 B5  
AIN5 A7  
AIN6 B3  
AIN7 B4

UART\_TX B1  
UART\_RX C1  
SPI1\_MOSI F3  
SPI1\_MISO F4  
SPI1\_SCK F5  
P0.16 G1  
P0.17 E4  
P0.19 F6  
P0.20 E6  
P0.21 E7  
P0.22 F9  
P0.23 E5  
P0.24 D6  
P0.25 F8  
I2C\_SDA A2  
I2C\_SCL A1  
UART4\_TX F7  
UART4\_RX D7  
P1.03 C3  
P1.04 E9  
P1.05 C9  
P1.06 B8  
P1.07 D8  
P1.08 D2  
P1.10 B7  
P1.11 C7  
P1.12 C8  
P1.13 B6  
P1.14 C6  
P1.15 B9

nRESET

MOD1A

D+

D-

RF\_PIN

P0.02/AIN0  
P0.03/AIN1  
P0.04/AIN2  
P0.05/AIN3  
P0.28/AIN4  
P0.29/AIN5  
P0.30/AIN6  
P0.31/AIN7

P0.09/NFC1  
P0.10/NFC2

P0.07/TRACECLK  
P1.00/TRCDAT0  
P0.12/TRCDAT1  
P0.11/TRCDAT2  
P1.09/TRCDAT3

SWDIO  
SWDCLK

X32K\_IN  
X32K\_OUT

PAN1780

50 Ohm

UFLRSM

GND

A9

A8

D3

G8

F1

F2

E2

G9

E8

C2

B2

UART\_CTS

P1.00

SPI1\_nSS

P0.11

P1.09

UART\_CTS

SWDIO

SWDCLK

CompanyName: Panasonic Industrial Devices Europe

Size: A4

Number:5

Revision:\*

Date: 11.11.2021

Time: 11:06:41

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File: MOD\_PAN1780.SchDoc

Panasonic

1

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3

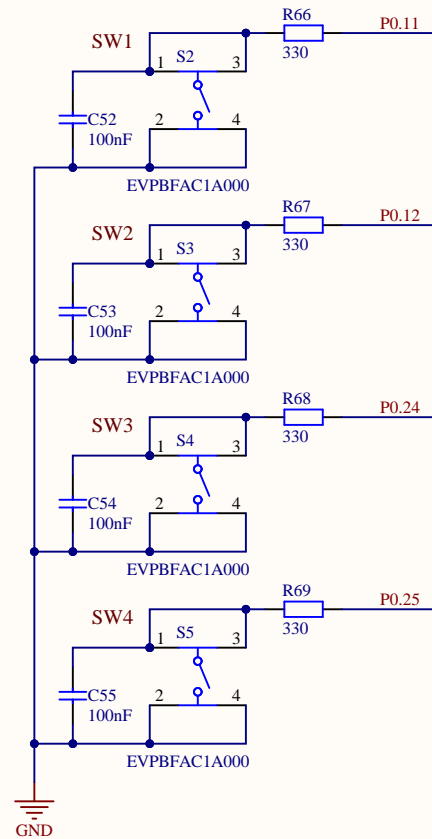
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## GPIO\_MOD

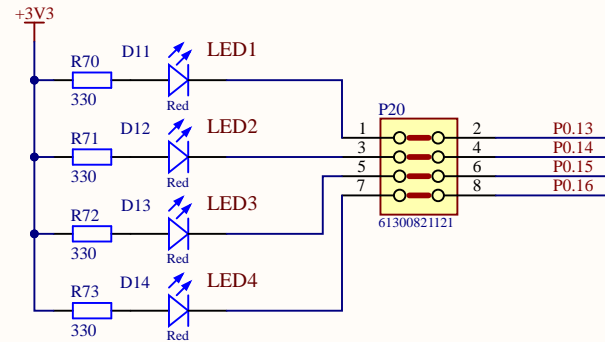
P0.02	•
P0.03	•
P0.04	•
P0.05	•
P0.06	•
P0.07	•
P0.08	•
P0.09	← P0.09/NFC1
P0.10	← P0.10/NFC2
P0.11	← P0.11
P0.12	← P0.12
P0.13	← P0.13
P0.14	← P0.14
P0.15	← P0.15
P0.16	← P0.16
P0.17	•
P0.19	•
P0.20	•
P0.21	•
P0.22	•
P0.23	•
P0.24	← P0.24
P0.25	← P0.25
P0.26	•
P0.27	•
P0.28	•
P0.29	•
P0.30	•
P0.31	•
P1.00	•
P1.01	•
P1.02	•
P1.03	•
P1.04	•
P1.05	•
P1.06	•
P1.07	•
P1.08	•
P1.09	•
P1.10	•
P1.11	•
P1.12	•
P1.13	•
P1.14	•
P1.15	•

## GPIO\_CON

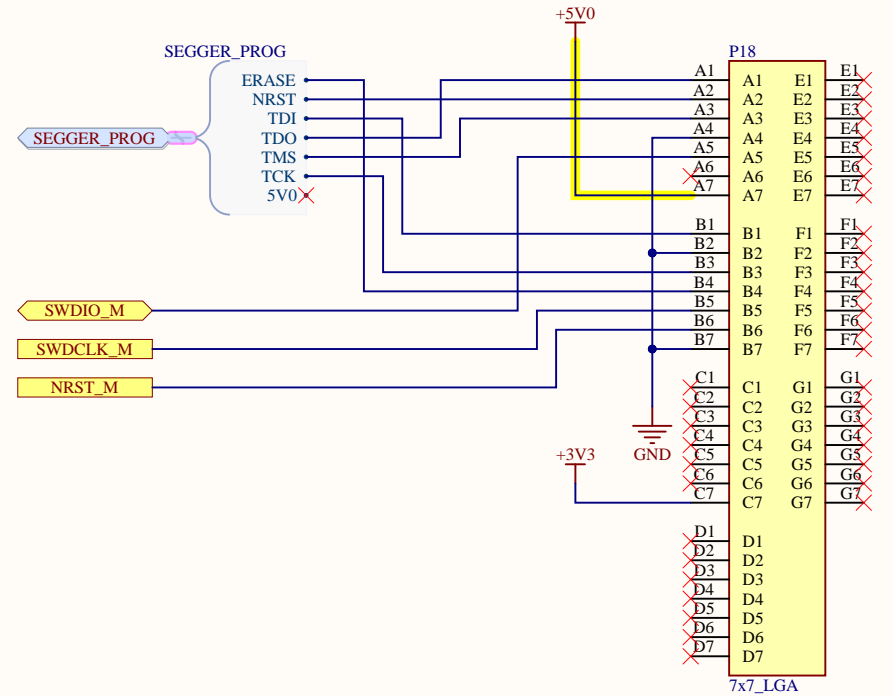
## Buttons



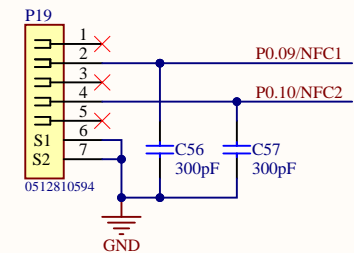
## LEDs



## Debug and Interface MCU Programming Connector



## Optional NFC Antenna Connector



CompanyName: Panasonic Industrial Devices Europe

Size: A4

Number: 6

Revision: \*

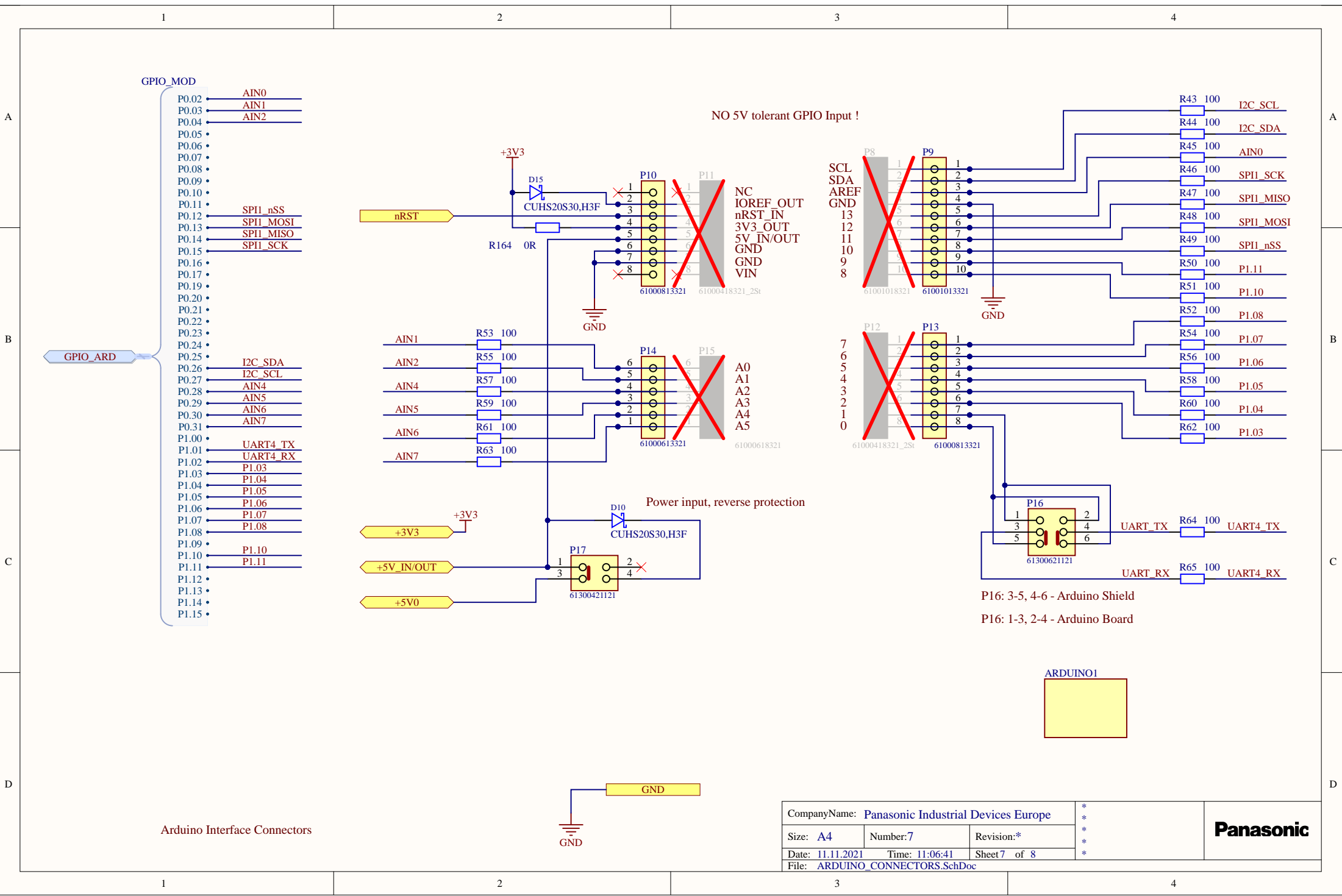
Date: 11.11.2021

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File: Debug\_Interface.SchDoc

Panasonic



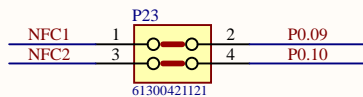
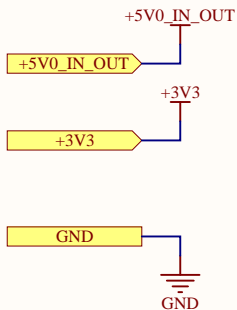
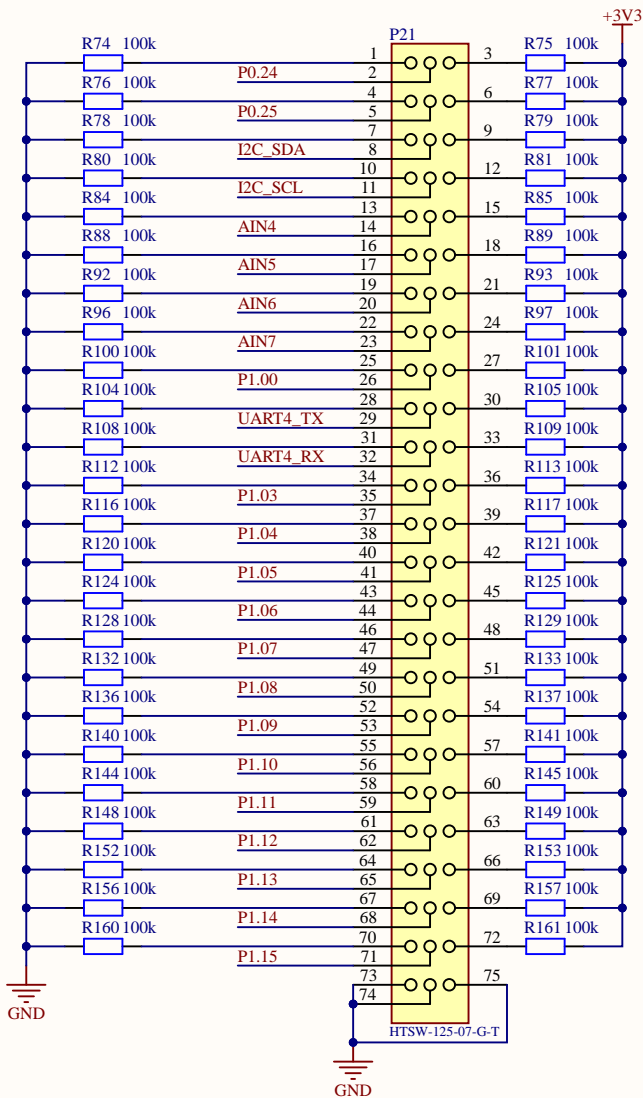
Arduino Interface Connectors

CompanyName: Panasonic Industrial Devices Europe			* * * *	<b>Panasonic</b>
Size: A4	Number:7	Revision:*		
Date: 11.11.2021	Time: 11:06:41	Sheet7 of 8		
File: ARDUINO_CONNECTORS.SchDoc				

GPIO\_MOD

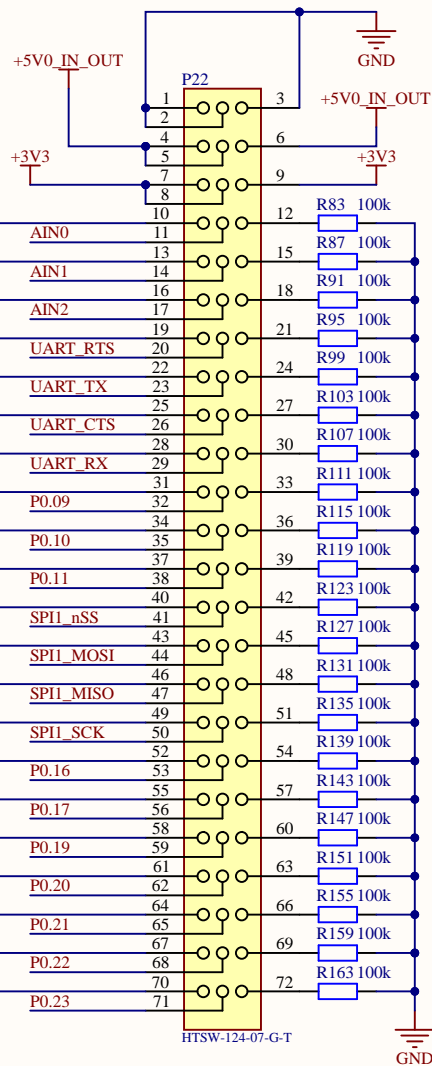
P0.02	AIN0
P0.03	AIN1
P0.04	AIN2
P0.05	UART_RTS
P0.06	UART_TX
P0.07	UART_CTS
P0.08	UART_RX
P0.09	NFC1
P0.10	NFC2
P0.11	SPI1_nSS
P0.12	SPI1_TX
P0.13	SPI1_MOSI
P0.14	SPI1_MISO
P0.15	SPI1_SCK
P0.16	P0.16
P0.17	P0.17
P0.19	P0.19
P0.20	P0.20
P0.21	P0.21
P0.22	P0.22
P0.23	P0.23
P0.24	P0.24
P0.25	P0.25
P0.26	I2C_SDA
P0.27	I2C_SCL
P0.28	AIN4
P0.29	AIN5
P0.30	AIN6
P0.31	AIN7
P1.00	P1.00
P1.01	UART4_TX
P1.02	UART4_RX
P1.03	P1.03
P1.04	P1.04
P1.05	P1.05
P1.06	P1.06
P1.07	P1.07
P1.08	P1.08
P1.09	P1.09
P1.10	P1.10
P1.11	P1.11
P1.12	P1.12
P1.13	P1.13
P1.14	P1.14
P1.15	P1.15

GPIO\_CON



NFC pin configuration

GPIO Interface connector



CompanyName: Panasonic Industrial Devices Europe

Size: A4

Number:8

Revision:\*

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File: GPIO\_connector.SchDoc

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