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UMDS

IO-Adapter1-XE

Beschrieb V 1.0

einfache IO-Karte mit Port-LED's und vier Schaltern und Erweiterungs-Stecker
simple IO board with port LED's and four switches and expansions connector

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IO-Adapter1-XE

<p>Dimension: 100mm x 86.2mm</p>			
		<p>Version 1.0</p>	

Beschrieb / Description / Descrizione

Diese Einheit dient bei Entwicklungen zur Visualisierung der Leitungszustände.

Die Beiden Schiebeschalter un die beiden Taster können zur Eingabe mit den benötigten IO-Leitungen verbunden werden.

Die 40 IO-Leitungen sind auf fünf 10polige Stecker geführt (ST201..ST205).

Steckerbelegung / Pinout / Connessioni

Port A .. Port E (ST201 .. ST205)

1	Px0	2	Px1
3	Px2	4	Px3
5	Px4	6	Px5
7	Px6	8	Px7
9	+5V	10	GND

J201 VCC_IO

1	+3.3V
2	VCC_IO
3	+5V

J202 /RESET, IRQ

1	IRQ	3	/RESET
2	GND	4	GND

J401 Schalter

1	GND
2	S404
3	S403
4	S402
5	S401
6	VCC_IO

J411 Einstellungen S401

1	GND
2	Switch
3	VCC_IO

J412 Einstellungen S402

1	GND
2	Switch
3	VCC_IO

ST201..ST205 IO-Stecker

1	Px0/GPy	2	Px1/GPy+1
3	Px2/GPy+2	4	Px3/GPy+3
5	Px4/GPy+4	6	Px5/GPy+5
7	Px6/GPy+6	8	Px7/GPy+7
9	+5V	10	GND

x = A, B, C, D, E

x = 00, 08, 16, 24, 32

X1,XE Bus Stecker

1A	+3.3V	1C	+3.3V
2A	+3.3V	2C	+3.3V
3A	+5V	3C	+5V
4A	+5V	4C	+5V
5A	PA0/GP0	5C	PA1/GP1
6A	PA2/GP2	6C	PA3/GP3
7A	PA4/GP4	7C	PA5/GP5
8A	PA6/GP6	8C	PA7/GP7
9A	PB0/GP8	9C	PB1/GP9
10A	PB2/GP10	10C	PB3/GP11
11A	PB4/GP12	11C	PB5/GP13
12A	PB6/GP14	12C	PB7/GP15
13A	PC0/GP16	13C	PC1/GP17
14A	PC2/GP18	14C	PC3/GP19
15A	PC4/GP20	15C	PC5/GP21
16A	PC6/GP22	16C	PC7/GP23
17A	PD0/GP24	17C	PD1/GP25
18A	PD2/GP26	18C	PD3/GP27
19A	PD4/GP28	19C	PD5/GP29
20A	PD6/GP30	20C	PD7/GP31
21A	PE0/GP32	21C	PE1/GP33
22A	PE2/GP34	22C	PE3/GP35
23A	PE4/GP36	23C	PE5/GP37
24A	PE6/GP38	24C	PE7/GP39
25A	IRQ	25C	/RESET
26A	PWR	26C	PWR
27A	PWR	27C	PWR
28A	PWR	28C	PWR
29A	GND	29C	GND
30A	GND	30C	GND
31A	GND	31C	GND
32A	GND	32C	GND

Stückliste

Part	Value	Device	Package
GP0	LED GE	FX1112H	1112
GP1	LED GE	FX1112H	1112
GP2	LED GE	FX1112H	1112
GP3	LED GE	FX1112H	1112
GP4	LED GE	FX1112H	1112
GP5	LED GE	FX1112H	1112
GP6	LED GE	FX1112H	1112
GP7	LED GE	FX1112H	1112
GP8	LED RT	FX1112H	1112
GP9	LED RT	FX1112H	1112
GP10	LED RT	FX1112H	1112
GP11	LED RT	FX1112H	1112
GP12	LED RT	FX1112H	1112
GP13	LED RT	FX1112H	1112
GP14	LED RT	FX1112H	1112
GP15	LED RT	FX1112H	1112
GP16	LED GN	FX1112H	1112
GP17	LED GN	FX1112H	1112
GP18	LED GN	FX1112H	1112
GP19	LED GN	FX1112H	1112
GP20	LED GN	FX1112H	1112
GP21	LED GN	FX1112H	1112
GP22	LED GN	FX1112H	1112
GP23	LED GN	FX1112H	1112
GP24	LED BL	FX1112H	1112
GP25	LED BL	FX1112H	1112
GP26	LED BL	FX1112H	1112
GP27	LED BL	FX1112H	1112
GP28	LED BL	FX1112H	1112
GP29	LED BL	FX1112H	1112
GP30	LED BL	FX1112H	1112
GP31	LED BL	FX1112H	1112
GP32	LED WS	FX1112H	1112
GP33	LED WS	FX1112H	1112
GP34	LED WS	FX1112H	1112
GP35	LED WS	FX1112H	1112
GP36	LED WS	FX1112H	1112
GP37	LED WS	FX1112H	1112
GP38	LED WS	FX1112H	1112
GP39	LED WS	FX1112H	1112
IC1		74245	SO20L
IC2		74245	SO20L
IC3		74245	SO20L
IC4		74245	SO20L
IC5		74245	SO20L
J201	CON03X1	CON03X1	1X03
J202	CON02X2	CON02X2	2X02
J401	CON06X1	CON06X1	1X06

Part	Value	Device	Package
J411	CON03X1	CON03X1	1X03
J412	CON03X1	CON03X1	1X03
LED404	LED-1206-GE	LED-1206	LED-1206
R0	0	R1206	1206
R1		R1206	1206
R2		R1206	1206
R3		R1206	1206
R4		R1206	1206
R5		R1206	1206
R6		R1206	1206
R7		R1206	1206
R8		R1206	1206
R9		R1206	1206
R10		R1206	1206
R11		R1206	1206
R12		R1206	1206
R13		R1206	1206
R14		R1206	1206
R15		R1206	1206
R16		R1206	1206
R17		R1206	1206
R18		R1206	1206
R19		R1206	1206
R20		R1206	1206
R21		R1206	1206
R22		R1206	1206
R23		R1206	1206
R24		R1206	1206
R25		R1206	1206
R26		R1206	1206
R27		R1206	1206
R28		R1206	1206
R29		R1206	1206
R30		R1206	1206
R31		R1206	1206
R32		R1206	1206
R33		R1206	1206
R34		R1206	1206
R35		R1206	1206
R36		R1206	1206
R37		R1206	1206
R38		R1206	1206
R39		R1206	1206
R401	100	R-1206	1206
R402	100	R-1206	1206
R403	100	R-1206	1206
R404	100	R-1206	1206
R411	1K	R-1206	1206
S401	LSG	LSG	LSG
S402	LSG	LSG	LSG

Part	Value	Device	Package
S403	MFP120	MFP120	MFP120
S404	MFP120	MFP120	MFP120
ST201	CON05X2	CON05X2	2X05
ST202	CON05X2	CON05X2	2X05
ST203	CON05X2	CON05X2	2X05
ST204	CON05X2	CON05X2	2X05
ST205	CON05X2	CON05X2	2X05
X1		MAC64LE	MAC64L
XE	FAC64W	FAC64W	FAC64R

* R0..R39 sind an die Intensität der verwendeten LEDs anzupassen (Bereich etwa 1K..4K7).

Links / Colegamenti

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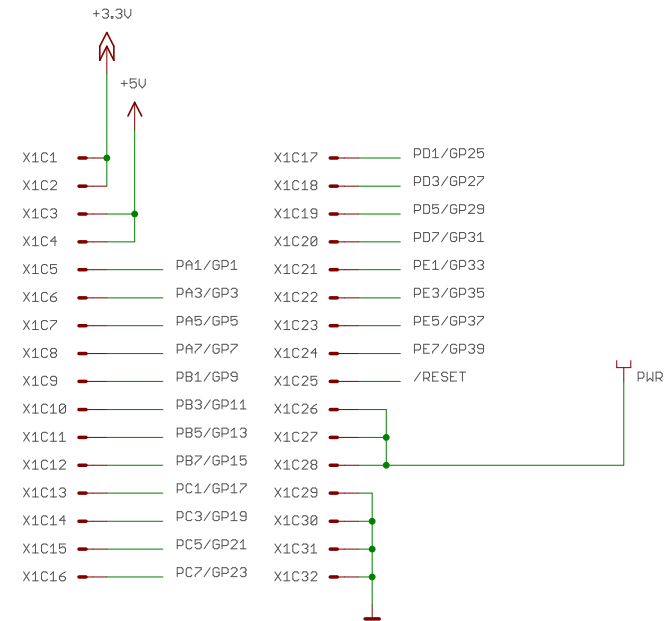
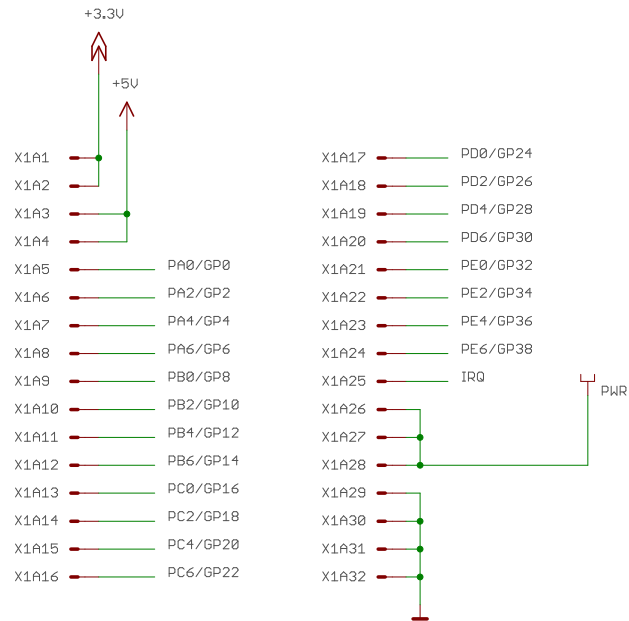
Entwicklung von Hard- und Software

Schulungs-Systeme

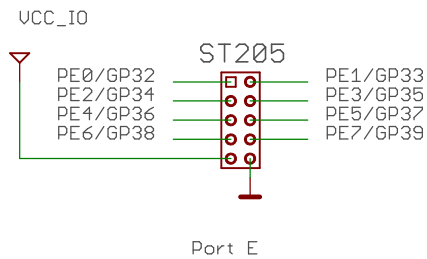
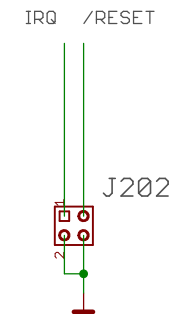
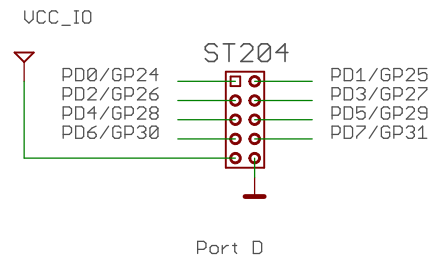
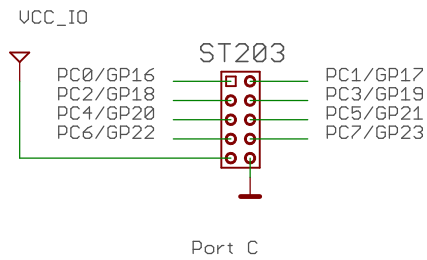
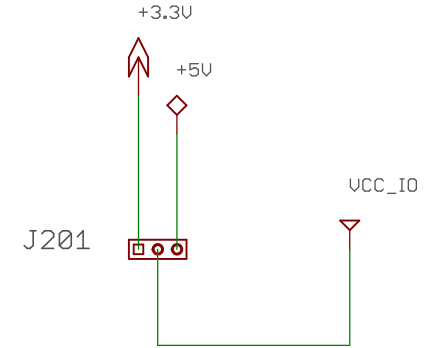
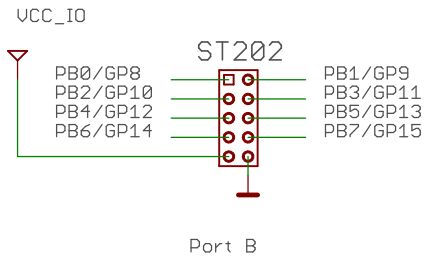
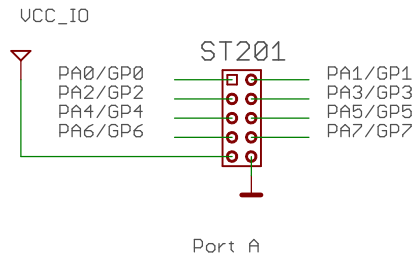
Kurse für Maker

Anhang:

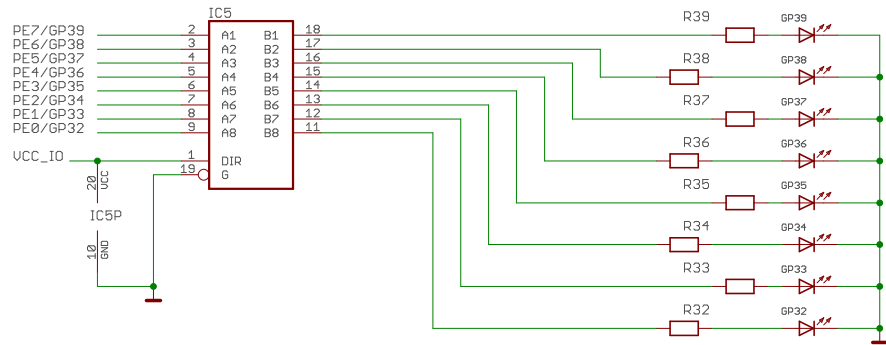
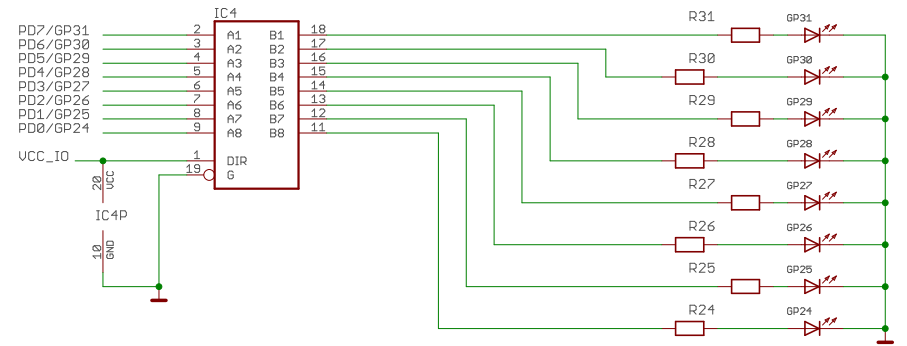
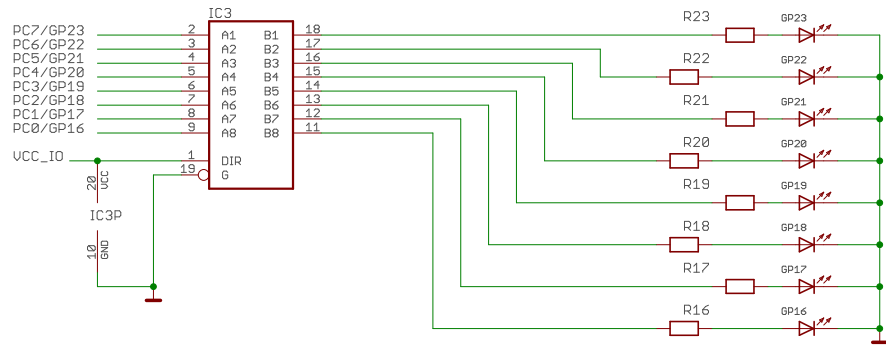
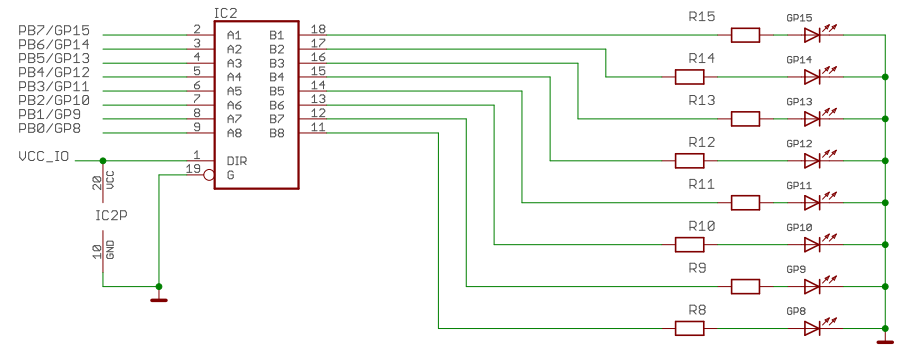
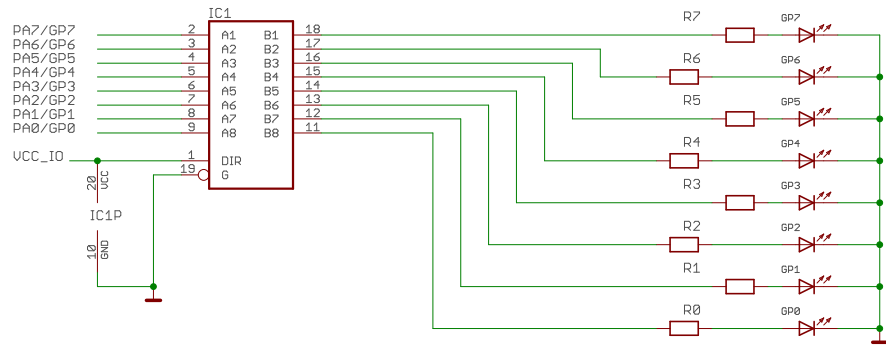
- **Schemata, Schematics, Schema**
- **Bestückungspläne, Component Placement, Piano di Montaggio**
- **PCB Layout**



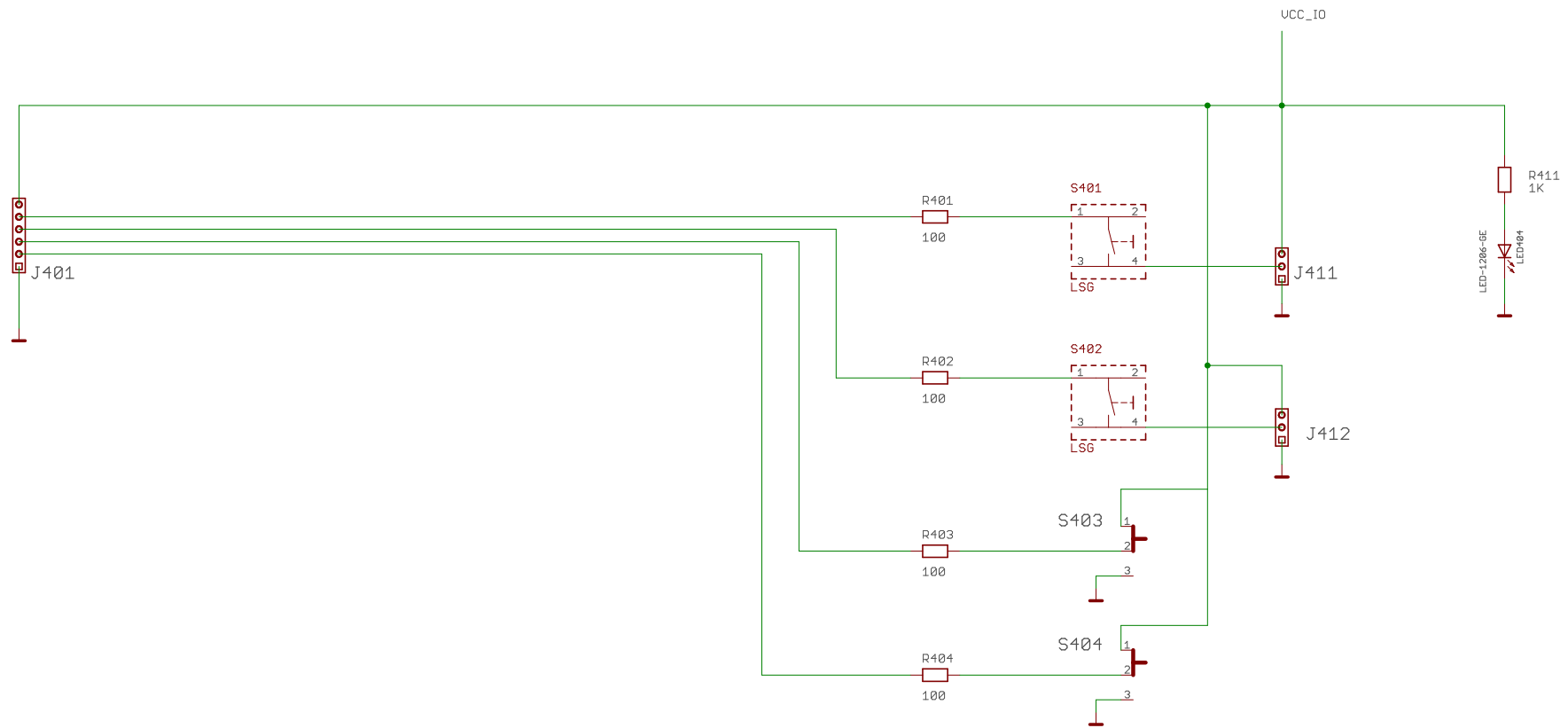
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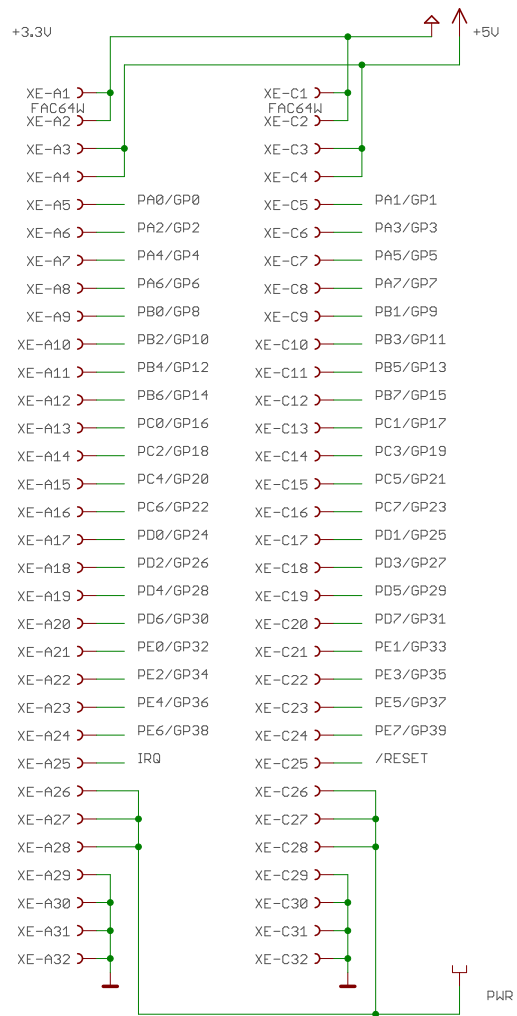
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