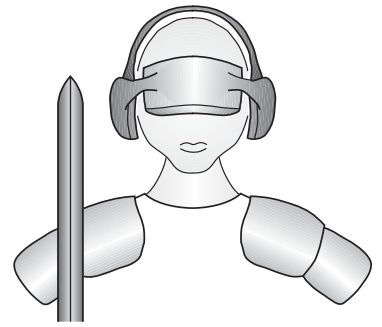


IO-Warrior100-MOD

Generic USB I/O controller module



Code Mercenaries

1. Features

IO-Warrior100-MOD (IOW100-MOD) is a ready to use PCB module with the IO-Warrior100.

The modules have a full speed USB interface and all basic components for the operation of the chip.

2. Variants

IO-Warrior100-MOD ships in a single variant.

Custom modifications are possible, please contact us with your requirements.

3. Using the IOW100-MOD

To use a IOW100-MOD you have to solder connections to the mechanical parts and set the power select jumper.

3.1 Selecting the power setting

The power select jumper sets the amount of current the IO-Warrior100 demands off the host computer. The center pin must be jumpered to either "HI" for 500 mA or "LO" for 100 mA. Do not let this pin float.

3.2 Connecting USB

USB is connected via a mini-B connector. Alternatively the USB is also available on solder pads next to the mini-B connector.

3.3 More details

A detailed description of the pins and the function of the IO-Warrior100 can be found in the main data sheet.

4. Pinout

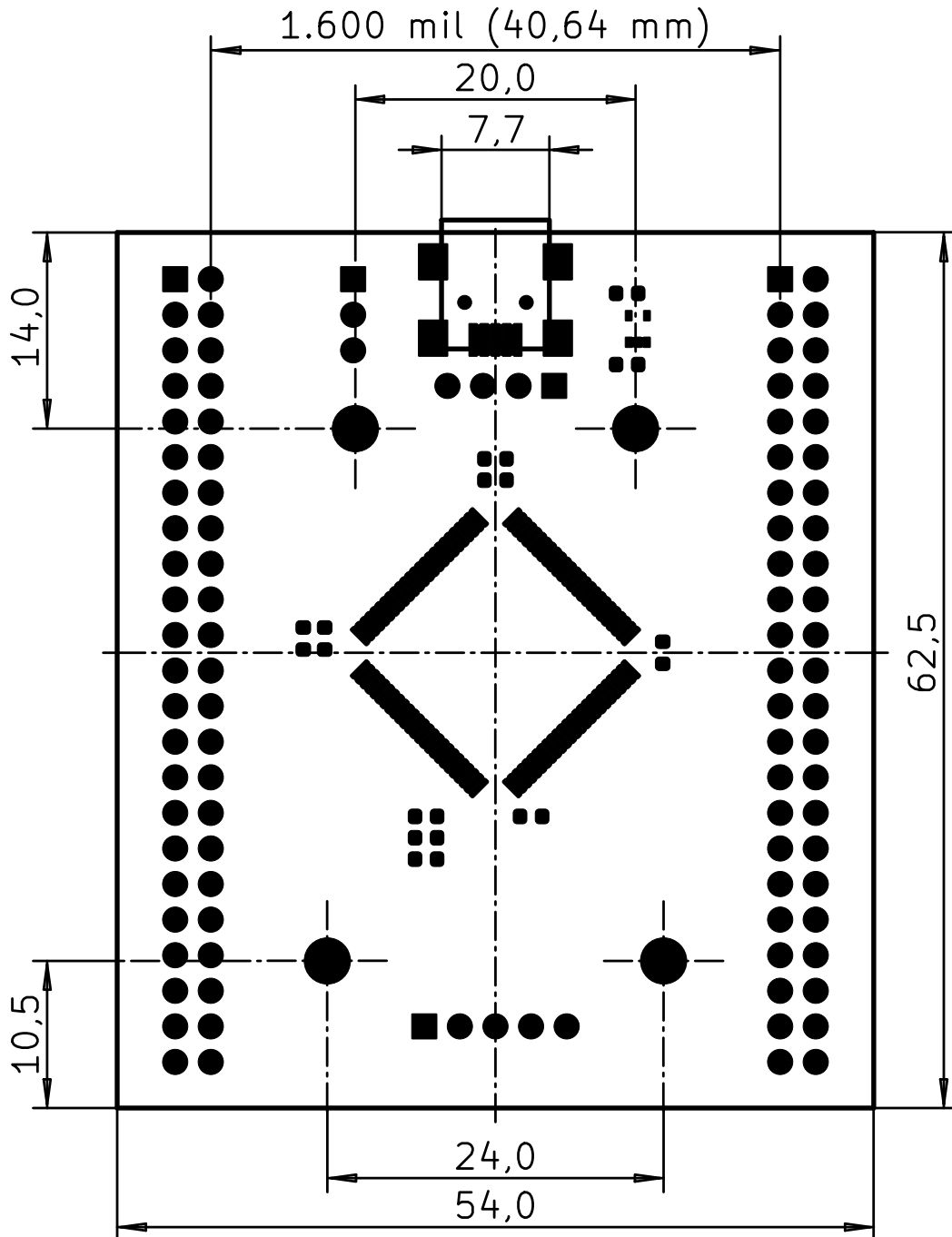
The pins of IO-Warrior100-MOD are labeled with the pin numbers of the LQFP100 chip. Except for the power connections, which are labeled with their actual value (i.e. +5 V, GND).

Following is the pin assignment as seen from the component side with the USB facing away from you.

	3.3V	+5 V	
Power	77	GND	
P5.2	78	79	P5.3
P5.4	80	81	P6.0
P6.1	82	83	P6.2
P6.3	84	85	P6.4
P6.5	86	87	P6.6
P6.7	88	89	P2.3
P2.4	90	91	P2.5
P2.6	92	93	P2.7
P3.0	95	96	P3.1
P8.0	97	98	P8.1
P8.2	01	02	P8.3
P8.4	03	04	P8.5
P8.6	05	07	P5.5
P5.6	08	09	P5.7
P11.1	10	11	P11.2
P10.0	12	13	P10.1
P4.0	15	16	P4.1
P4.2	17	18	P4.3
P10.2	19	22	P10.3
	VDDA	VDDA	
	GND	GND	

P10.6	73	69	P1.2
P1.1	68	67	P1.0
P5.1	66	65	P5.0
P4.7	64	63	P4.6
P7.7	62	61	P7.6
P7.5	60	59	P7.4
P7.3	58	57	P7.2
P7.1	56	55	P7.0
P3.7	54	53	P3.6
P3.5	52	51	P3.4
P3.3	48	47	P3.2
P9.7	46	45	P9.6
P9.5	44	43	P9.4
P9.3	42	41	P9.2
P9.1	40	39	P9.0
P8.7	38	37	P2.2
P2.1	36	35	P2.0
P4.5	34	33	P4.4
P0.7	32	31	P0.6
P0.5	30	29	P0.4
P0.3	26	25	P0.2
P0.1	24	23	P0.0
	GND	GND	

5. Mechanical dimensions



Top view

All dimensions in mm

Mounting holes: 3.2 mm diameter for M3 screws

6. Absolute maximum ratings

Storage Temperature	-65°C to +150°C
Ambient Temperature with power applied.....	-40°C to +85°C
Supply voltage on +5V relative to GND.....	-0.3 V to +6.5 V
DC input voltage into any pin	-0.3 V to +4 V
Maximum current into all ports.....	80 mA
Power Dissipation.....	max. 476 mW
Static discharge voltage.....	>2000 V
Latch-up current.....	>200 mA

These values must not be exceeded, or the device may be damaged.

7. RoHS compatibility

IOW100-MOD conforms to the requirements that are necessary to use it in a RoHS compliant device.

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