

Short description**rev. 1.2**

Introduction: This concise description is intended to convey a brief overall view of the components. Adjustment alternatives are depicted herein. This synopsis is no substitute for the detailed technical manual and must not be used as such.

1. Description of functions

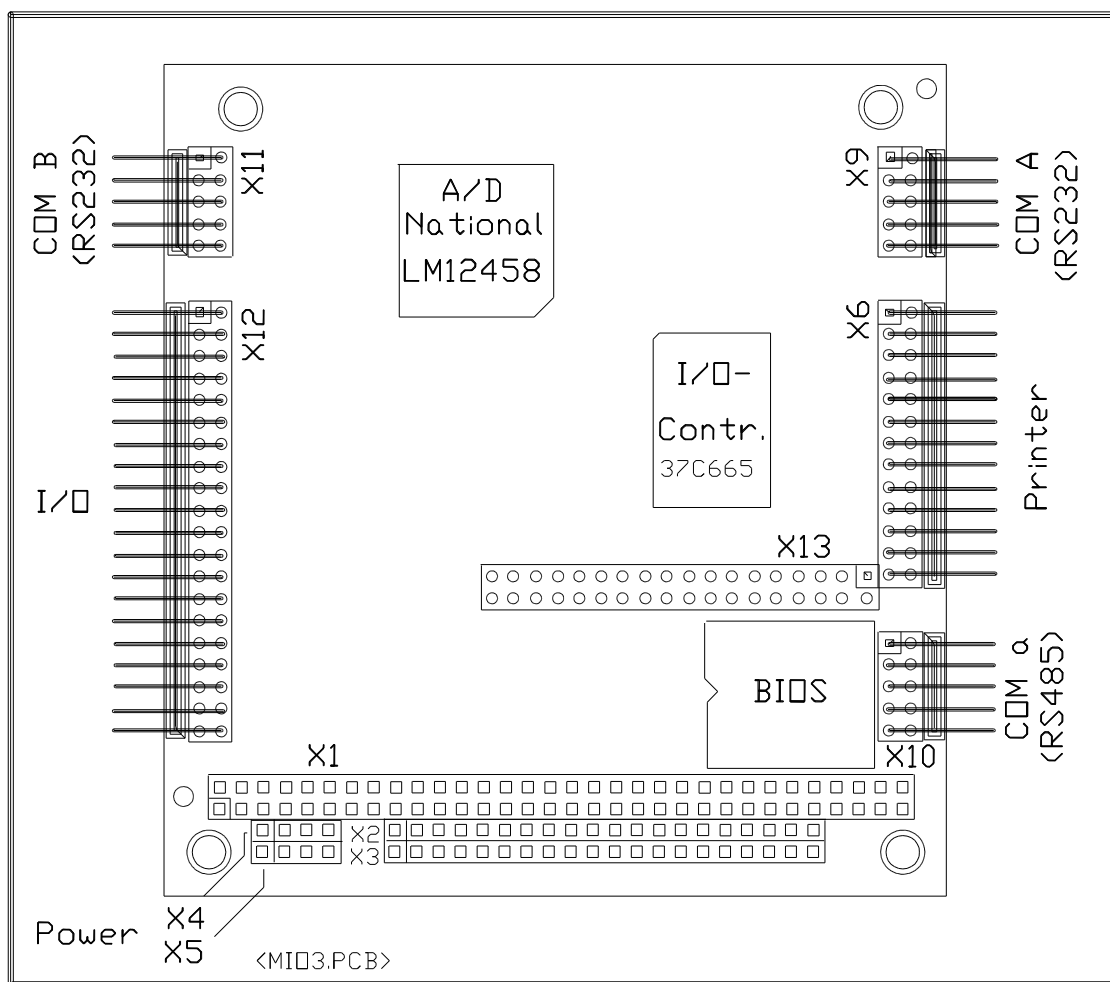
The PC/104-MIO3 is a Multi-I/O PC/104 Component group with the following functions.

Digital I/O: 14 digital input and 8 digital open collector outputs with a switching capability of 24 Volts and 24mA.

Serial Interfaces: Serial interfaces with FIFO, their Interrupts can be adjusted as required. Both of the serial interfaces can be operated as COM1/2 or COM3/4. COM1 or COM3 can alternatively be connected as RS232 (X9) or RS485 (X10).

Printer Port: A bi-direktional parallel printerport is available.

Optionally, an A/D-Converter National LM12458 can be fitted to a PLCC-Socket. Access area is 0-2,5V with 8 channels and 12 bit Resolution. The A/D-Converter can be fitted by the user.



PC/104-MIO3

JUMPTec®

PC/104-Bus: The PC/104 Bus is attached to a 104 poled Stack through male-female Connector.

Connecting the voltage supply: The PC/104-MIO3 can be operated with a voltage supply of 5V only.

P C / 1 0 4 - B u s					Power	I/O-Connector	JUMPER Array	Printer-Centronics
(X1)		(X2)	(X3)					
Pin	A	B	C	D	X5/X4	X12	X13	X6
0			GND	GND				
1	/IOCHCK	GND	/SBHE	/MEMCS16	GND	AGND	IRQ12	/STB
2	SD7	RESETDRV	LA23	/IOCS16	VCC	ADC0	IRQ5	/AFD
3	SD6	VCC	LA22	IRQ10	Codierpin	AGND	LPTIRQ	PD0
4	SD5	IRQ9	LA21	IRQ11	+12V	ADC1	LPTIRQ	/ERR
5	SD4	-5V	LA20	IRQ12	-5V	AGND	IRQ15	PD1
6	SD3	DRQ2	LA19	IRQ15	-12V	ADC2	IRQ7	/INIT
7	SD2	-12V	LA18	IRQ14	GND	AGND	IRQ15	PD2
8	SD1	/0WS	LA17	/DACK0	Vcc	ADC3	IRQ11	/SLIN
9	SD0	+12V	/MEMR	DRQ0		SYNC	S2IRQ	PD3
10	IOCHRDY	GND	/MEMW	/DACK5		ADC4	S2IRQ	GND
11	AEN	/SMEMW	SD8	DRQ5		I2CLK	IRQ12	PD4
12	SA19	/SMEMR	SD9	/DACK6		ADC5	IRQ3	GND
13	SA18	/IOW	SD10	DRQ6		I2DAT	IRQ12	PD5
14	SA17	/IOR	SD11	/DACK7		ADC6	IRQ10	GND
15	SA16	/DACK3	SD12	DRQ7		GND	S1IRQ	PD6
16	SA15	DRQ3	SD13	VCC		ADC7	S1IRQ	GND
17	SA14	/DACK1	SD14	/MASTER		OC0	IRQ11	PD7
18	SA13	DRQ1	SD15	GND		IN0	IRQ4	GND
19	SA12	/REFRESH	GND	GND		OC1	IRQ15	/ACK
20	SA11	SYSCLK				IN1	IRQ5	GND
21	SA10	IRQ7				OC2	ADCIRQ	/BUSY
22	SA9	IRQ6				IN2	ADCIRQ	GND
23	SA8	IRQ5				OC3	IRQ10	PE
24	SA7	IRQ4				IN3	NC	GND
25	SA6	IRQ3				OC4	/ADR-C0	/SLCT
26	SA5	/DACK2				IN4	/ADR-DC	Vcc
27	SA4	T/C				OC5	/ADC-CS	
28	SA3	BALE				IN5	/ADC-CS	
29	SA2	VCC				OC6	/ADR-C4	
30	SA1	OSC				IN6	/ADR-D8	
31	SA0	GND				OC7	/ADR-C8	
32	GND	GND				IN7	/ADR-D8	
33						IN9	/ADC-CS	
34						IN8	/ADC-CS	
35						IN11	/ADR-CC	
36						IN10	/ADR-D0	
37						IN13		
38						IN12		
39						VCC		
40						VCC		

	COMA RS485	COMA RS232	COMB RS232
Pin	X10	X9	X11
1	A+	RLSD1	RLSD2
2	B+	DSR1	DSR2
3	ATerm.	SIN1	SIN2
4	BTerm.	RTS1	RTS2
5	A-	SOUT1	SOUT2
6	B-	CTS1	CTS2
7	NC	DTR1	DTR2
8	NC	RI1	RI2
9	GND	GND	GND
10	NC	VCC	VCC

Technical data

Measurements (LxB): 96*90 mm.
Temperature: Operation 0 to 60 °C
Voltage: +5V +/- 5%
Storage: -10 to +85 °C
Power consumption: 200mA typ.
max. Humidity:
Operation: 10% to 90% with 5 V
Storage: 5% to 95% (Do not condense)

Accessories (not contained in delivery)

* Detailed technical Manual

Order No.: MIO23D01.DOC

All cited Data are no assured qualities in the sense of the law. <MIO3K111.DOC> 09.04.97

History:

17.05.96	Newly drawn up	Be	Rev. 1.0
09.04.97	changed to english	Be	rev. 1.1
02.08.98	Exchanged Jump to Jumptec	SG	rev 1.2