

*...always a JUMP  
ahead! Multi-I/O Board  
with 2xCOM, digital  
I/O,  
A/D Converter,  
Interface for Matrix  
Keyboard  
and Character Display*

### Description:

The **MIO2** is a versatile and multi-functional PC/104 In-/Output component with various interfaces and can be diversely employed. 14 digital access and 8 digital exits are available for steering purposes. Two serial interfaces are available, configured as COM1 + 2 or COM3 + 4. An LCD character display of several lines can also be directly connected and is supported by the on-board BIOS. The software for a matrix keyboard is likewise integrated in the BIOS, so that a keyboard of up to 16x10 can be directly operated.

**Option: A/D adapter** with 8 channels each with 12 bit resolution. Automatic, cyclical scanning without using the "system-CPU".

### Technical Data:

- Two **RS232C** Interfaces with FIFO configured either as COM1+2 or COM3+4
- **14 digital access'** TTL level recorder
- **8 digital** open-collector exits. 24V, 24mA
- Interface for **character display** of several lines e.g 4x20 characters. A "copy to display" function allows the indication of screen output to appear on the character display.
- matrix touch screen or matrix keyboard interface with up to 16x10 keys is connectable, a driver in BIOS is integrated. Operational in parallel to a standard keyboard.
- **A/D adapter is optional**, with 8 channels each with 12 bit + sign (also available in 8 bit + sign). Access voltage area of 0-2, 5 V. Internal cyclical query and a storing in the cache of measurements. Adaption time 8.8µs (max.) with 13-bit and 4.2µs (max) with 9-bit with a throughput of 87k samples/s with 13-bit.
- only 5 volts
- Power consumption: typ. 100mA
- 96x90 mm
- **Temperature:**  
operation: 0 to 60°C  
storage : 10 to 85°C
- **max. humidity:**  
operation: 10% to 90%  
storage: 5% to 95%  
(do not allow condensing)

## ORDERING-INFORMATION

Article	Part.-No.	Description	DM/Pc. for	50	20	10	1 Pcs.
PC/104-MIO-2	01007-0000-00-0	Multi-I/O board .....	313	324	334	345	
PC/104-MIO-2	01007-0000-00-1	Multi-I/O board with 8 Channel, 12 bit A/D Converter.....	363	375	387	399	

## ACCESSORIES

Article	Part.-No.	Description	DM/Pc. for	50	20	10	1 Pcs.
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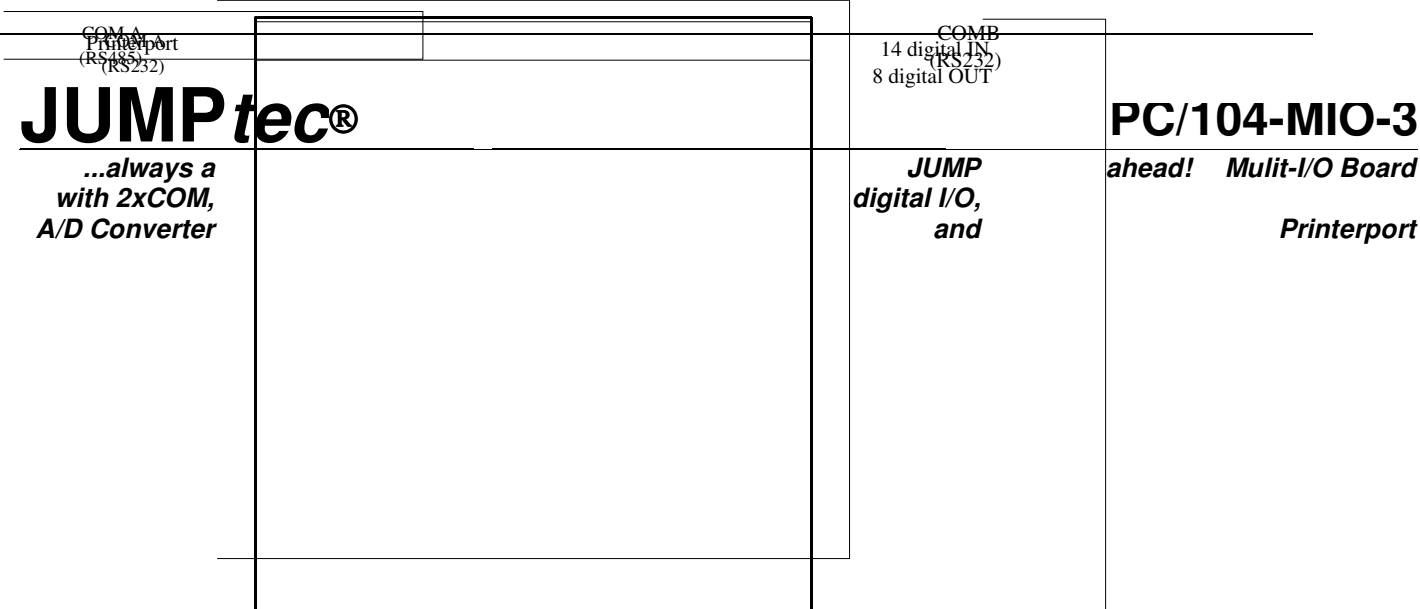
For further information regarding JUMPtec Products, visit us at <http://www.jumptec.de>

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Prices are valid since April 1, 1998. - All prices subject to change without notice. All prices in DM each, net, Exw, without VAT. -  
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## Description:

The **MIO3** is a versatile and multifunctional PC/104 In-/Output component group with various interfaces and can be diversely employed. 14 digital access' and 8 digital exits are available for steering purposes. Two serial interfaces are available, configured as COM1+2 or COM3+4. A bi-directional printerport, adjustable as an LPT1 or as an LPT2 is also integrated.

**Optional A/D Adapter** with 8 channels each with 12 Bit resolution. Automatic, cyclical scanning without using the "system-CPU".

## Technical Data:

- **2 RS232c** interfaces with FIFO, configured either as COM1+2 or as COM3+4, the second is alternatively available as RS485.
- **14 digital access'** TTL Level recorder
- **8 digital** open-collector exits . 24V, 24mA.
- Bi-directional printerport adjusted as either LPT1 or as LPT2
- **A/D adjuster optional** with 8 channels 12 bit each. Access voltage area of 0-2.5V. Internal cyclical query and storing in the cache of measurements. Adaption time 8.8 µs (max) with 13 Bit and 4.2µs (max) with 9 bit with a throughput of 87k samples with 13 bit.
- only 5 volts
- Power consumption: typ. 100mA
- 96x90 mm
- **Temperature:**
  - operation: 0 to 60°C
  - storage : 10 to 85°C
- **max. humidity:**
  - operation: 10% to 90%
  - storage: 5% to 95%
  - (do not allow condensing)

## ORDERING-INFORMATION

Article	Part.-No.	Description	DM/Pc. for	50	20	10	1 Pcs.
PC/104-MIO-3	01008-0000-00-0	Multi-I/O board.....	259	268	276	285	
PC/104-MIO-3	01008-0000-00-1	Multi-I/O board with 8 Channel, 12 Bit A/D Converter.....	309	319	329	340	

## ACCESSORIES

Article	Part.-No.	Description	DM/Pc. for	50	20	10	1 Pcs.
PC/104-MIO-3DOC	96035-0006-00-0	manual.....					20

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