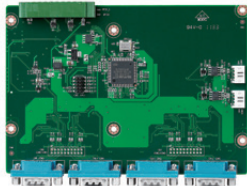


# MI/O Extension Modules



**MI0e-210**  
4 x RS232/422/485,  
2 x RS422/485, 8-bit GPIO

## Specifications

General	
Bus Interface	MI0e LPC
Ports	4 x RS232/422/485, 2 x RS422/485
GPIO	8-bit with 3.3V level
Communications	
Data Bits	5, 6, 7, 8
Data Signals	RS-422: TxD+, TxD-, RxD+, RxD- RS-485: DATA+, DATA- RS-232: TxD, RxD, RTS, CTS, DTR, DSR, DCD, RI, GND
IRQ	Depends on MI/O CPU Board
Parity	even, odd, sticky or no
Speed	50 to 460k, 921k* and 1.5M* Baud
Stop Bits	1, 1.5, 2
Protection	
EFT Protection	Air gap ±15kV, contact ±8kV
Compatibility	
Rear I/O	MI/O-Compact
Mechanical	MI/O-Compact
Function	MI/O-Compact*, MI/O-Ultra*
Environment	
Dimensions	146 x 102 mm (5.7" x 4")
Weight	0.186 kg (0.41 lb)
Operating Humidity	0 ~ 90 % relative humidity, non-condensing
Operating Temperature	0 ~ 60° C (32 ~ 140° F)
Storage Temperature	-40° C ~ 85° C and 60° C @ 95% RH Non-Condensing
Power	
Power Supply Voltage	Supported by MI/O Extension SBC

\* Requires customized BIOS for MI/O CPU board support.

## Ordering Information

P/N	Description
MI0e-210-D6A1E	4 x RS232/422/485, 2 x RS422/485, 8-bit GPIO

## Accessories

Part No.	Description	Quantity
1703040157	RS-422/485 W/D-SUB COM 4P 15 cm	2



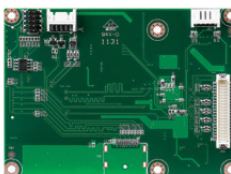
**MI0e-220**  
3 x Intel® Gigabit Ethernet

## Specifications

General	
Bus Interface	MI0e PCI Express
Chipset	Intel® 82583V Gigabit Ethernet Controller
PCIe Switch	PLX PEX8605
Port	3 x RJ45
Speed	10/100/1000 Mbps
Compatibility	
Rear I/O	MI/O-Compact
Mechanical	MI/O-Compact
Function	MI/O-Compact, MI/O-Ultra
Mechanical and Environmental	
Dimensions (L x W)	102 x 83 mm (4" x 3.2")
Weight	0.182 kg (0.401 lb)
Operating Temperature	Standard operating: 0 ~ 60° C (32 ~ 140° F)
Operating Humidity	0% ~ 90% relative humidity, non-condensing
Storage Temperature	-40° C ~ 85° C and 60° C @ 95% RH Non-Condensing
Power	
Power Supply Voltage	Supported by MI/O Extension SBC

## Ordering Information

P/N	Description
MI0e-220-L3A1E	3 x Intel® Gigabit Ethernet without PCIe Switch
MI0e-220-B3A1E	3 x Intel® Gigabit Ethernet with PCIe Switch (for MI0-5250 or MI0-2261)



**MI0e-230**  
48-bit LVDS or DisplayPort<sup>1</sup>,  
2 x USB 2.0

## Specifications

General	
Bus Interface	MI0e Displayport & USB 2.0
Controller	Chrontel CH7511
Brightness Control	Supported
USB	2 x USB 2.0
Compatibility	
Rear I/O	MI/O-Ultra
Mechanical	MI/O-Compact, MI/O-Ultra
Function	MI/O-Compact <sup>2</sup> , MI/O-Ultra <sup>2</sup>
Mechanical and Environmental	
Dimensions (L x W)	100 x 72 mm (3.9" x 2.8")
Weight	0.084 kg (0.185 lb)
Operating Temperature	0 ~ 60° C (32 ~ 140° F)
Operating Humidity	0% ~ 90% relative humidity, non-condensing
Power	
Power Supply Voltage	Supported by MI/O Extension SBC

<sup>1</sup> Supports by request

<sup>2</sup> Requires customized BIOS for or HW adjustment MI/O CPU board support.

## Ordering Information

P/N	Description
MI0e-230-L0A1E	48-bit LVDS or DisplayPort, 2 x USB 2.0