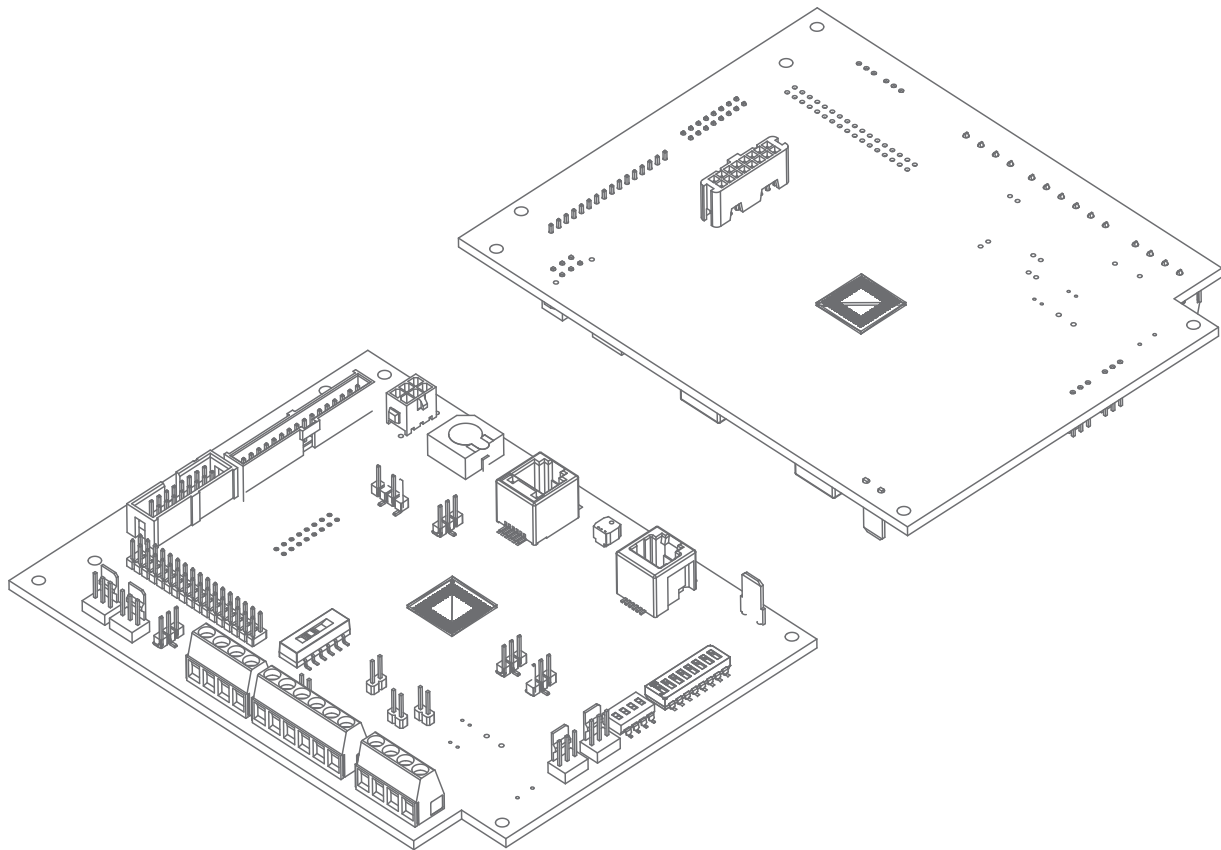


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## Introduction

The MPM801 NexGen Multi-Purpose Interface Module is used to interface between the controller and the expansion modules through the Remote Bus. The MPM801 module is compatible with the legacy MPM800 module, except that the MPM801 module does not include the LCD or the keyboard interface. The MPM801 module provides remote connection over the new X-Bus for zonal displays such as the PZ4DS, PZ8DS, FCZ4DS, and FCZ8DS. The X-Bus also supports the ANN820, ANN840, and the ANN880.

**Figure 1: MPM801 NexGen Multi-Purpose Interface Module**



## Features

The MPM801 module is the primary module that controls the following secondary I/O (input/output) and LED annunciator modules:

- Up to five IOB800 8 in/8 out expansion boards
- Up to five XIOM800 16-Way universal I/O boards
- One 80-Way LED Mimic driver PCB
- One 80-Way ANN880 LED Mimic
- One 40-Way ANN840 LED Mimic
- One 40-Way ANN820 LED Mimic
- Two 20-Way COM821 LED status/command modules
- One zonal display such as the PZ4DS, PZ8DS, FCZ4DS, and FCZ8DS

**Note:** The MPM801 is mounted by plugging it into the back of the ANN880, ANN840, ANN820, and the COM821.

## Ordering information

**Table 1: Ordering information for the MPM801 and the supporting ancillaries**

Product	Order code
Minerva 80-Way Mimic Driver Module	557.180.005
LQ300 Epson Dot Matrix Alarm Printer - 24 Pin 80 Character	557.180.239
PZ4DS PROFILE 40 Zone Display	557.200.806
PZ8DS PROFILE 80 Zone Display	557.200.811
FCZ4DS FireClass 40 Zone Display	557.200.957
FCZ8DS FireClass 80 Zone Display	557.200.958
IOB800 Standard 8 in/8 out Expansion Board	557.202.006
ANN820 with Red/Yellow and Green/Yellow LEDs	557.202.018
ANN840 40-Way Alarm/Fault Module	557.202.021
ANN880 80-Way Alarm LED Module	557.202.022
MPM801 NexGen Multi-Purpose Interface Module	557.202.875
COM821 NexGen 20-Way Status/Command Module	557.202.876

# Performance characteristics

**Table 2: MPM801 performance characteristics**

	MPM801
<b>Mechanical data</b>	
Dimensions H x W x D	27 mm x 120 mm x 152 mm
Weight	0.28 kg
<b>Ambient conditions</b>	
Environment	Indoor application only
Operating temperature	-10°C to +55°C
Storage temperature	-20°C to +70 °C
Operating humidity	Up to 95% non-condensing
<b>Electrical characteristics</b>	
Current consumption: For +24 V (21 V to 29 V) external supply, or for 5 V (4.5 V to 5.5 V) external supply	<p>With the standard RS485, the switch SW1 is in the Local Mode.</p> <ul style="list-style-type: none"> <li>Using +24 VDC only: 26 mA maximum</li> <li>Using +5 V only: 73 mA maximum</li> </ul> <p>With the isolated RS485, the switch SW1 is in the Remote Mode.</p> <ul style="list-style-type: none"> <li>Using +24 VDC only: 36 mA maximum</li> <li>Using +5 VDC only: 115 mA maximum</li> </ul> <p>These characteristics are based on the MPM801 set in the fault condition with the Power LED ON (fault condition = Fault LED + buzzer activated).</p> <p>① <b>Note:</b> For RS485, RS485 IC is preinstalled. The switch SW1 is used for Isolated/Non-Isolated. To make RS485 Isolated/Non-Isolated, you must change the switch SW1 position.</p>

**Table 2: MPM801 performance characteristics**

	<b>MPM801</b>
Battery requirements: For 24 V, use a nominal battery	With the standard RS485, the switch SW1 is in the Local Mode: Standby, Alarm <ul style="list-style-type: none"><li>• MPM801 (5 VDC power): 10 mA, 16 mA</li><li>• MPM801 (24 VDC power): 19 mA, 30 mA</li></ul> With the isolated RS485, the switch SW1 is in the Remote Mode. <ul style="list-style-type: none"><li>• MPM801 (5 VDC power): 22 mA, 30 mA</li><li>• MPM801 (24 VDC power): 37 mA, 47 mA</li></ul>
Electromagnetic compatibility	<ul style="list-style-type: none"><li>• EN 50130-4 and E10-Rev7 for the following:<ul style="list-style-type: none"><li>- Conducted disturbances</li><li>- Electrostatic discharge</li><li>- Electrical fast transients</li><li>- Radiated immunity</li><li>- Slow high energy/surge test</li></ul></li><li>• EN 61000-6-3 for emissions and E10-Rev7:<ul style="list-style-type: none"><li>- Radiated emission</li><li>- Conducted emission</li></ul></li><li>• E10-Rev7: Marine standard</li></ul>

## Approvals

All required declarations and certificates are publicly available on the website [www.zettlerfire.com](http://www.zettlerfire.com) or [fireclass.com](http://fireclass.com) and are searchable by number or model name. The above fire detection products are components designed for use in Addressable Systems exclusively available to registered partners only. They are intended for installation by trained registered personnel only. Systems should be installed and configured according to local regulations.