

## Point Expansion Modules



Figure 1. Point Expansion Modules.

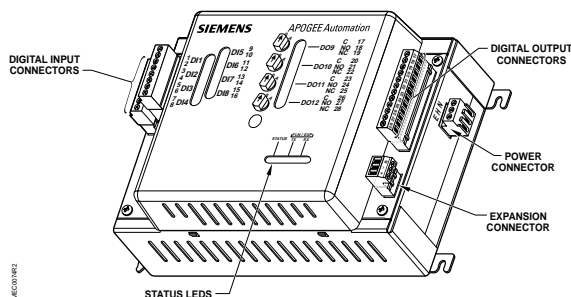


Figure 2. Digital Point Expansion Module (DPX).

### Description

The Point Expansion Modules provide cost-effective methods for controlling and monitoring remote points. As an extension of the field panel, this capability expands the point capacity of the APOGEE® Automation System and provides for efficient placement of the point terminations close to the sensors and loads.

### Features

- Compatible with the MEC Point Expansion Bus and any field panel Floor Level Network (FLN)
- Analog or digital points, which provide for point expansion capability to match the application requirements
- The terminal blocks are removable for easy termination and servicing of field wiring
- Optional Hand-Off-Auto (HOA) switches

### Analog Point eXpansion module (APX):

Available in 8AI and 4AI/4AO models. Analog inputs are user selectable to be 0-10V, 4-20mA, or 1K RTD. Analog outputs are selectable to be 0-10V or 4-20mA.

### Digital Point eXpansion module (DPX):

Available in 8DI/4DO and 4DI/4DO models. The digital inputs are dry contact with four of the inputs being pulse accumulator points. LEDs on the Digital Point Expansion modules indicate On/Off status for DI and DO points. The relayed digital output points support 110/220V Form C relays.

## Specifications

A/D Resolution (analog in)	12 bits
Network Communication Speed	4800 bps to 38.4K bps
Voltage Requirements	19.2 Vac to 26.4 Vac @ 50/60 Hz
Power Consumption	
Analog Point Expansion module 8AI	17 VA @ 24 Vac
Analog Point Expansion module 4AI/4AO	14 VA @ 24 Vac
Digital Point Expansion module 8DI/4DO	20 VA @ 24 Vac
Digital Point Expansion module 4DI/4DO	17 VA @ 24 Vac
Enclosure Type	NEMA 1
Ambient Operating Environment	+32°F to +120°F (0°C to +49°C) 93% RH (Non-condensing)
Agency Listings	UL 864 UUKL, UDTZ, QVAX ULC-C100 UUKL7 UL 916 PAZX
Agency Compliance	FCC Compliance Australian EMC Framework European EMC Directive (CE) European Low Voltage Directive (LVD)
Dimensions:	6" H x 9.5" W x 3.75" D (152 mm x 241mm x 95mm)
Mounting Surface	Building Wall or Structural Member

## Ordering Information

### Point Expansion Modules

Description	Product Number
Analog Point Expansion, 8AI	549-209
Digital Point Expansion, 8DI/4DO HOA-ready	549-210
Digital Point Expansion, 8DI/4DO with HOA	549-211
Digital Point Expansion, 4DI, 4DO HOA-ready	549-212
Digital Point Expansion, 4DI, 4DO with HOA	549-213
Analog Point Expansion, 4AI, 4AO HOA-ready	549-214
Analog Point Expansion, 4AI, 4AO with HOA	549-215

### HOA Upgrade-Kits

Description	Product Number
HOA Upgrade Kit for the MEC 8DI, 8DO, 8AI, 8AO	549-517
HOA Upgrade Kit for the Digital Point Expansion module 4DI, 4DO	549-518
HOA Upgrade Kit for the Digital Point Expansion module 8DI/4DO	549-519
HOA Upgrade Kit for the Analog Point Expansion module 4AI, 4AO	549-520

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