

## 2. Specifications

Specifications for Series-8 I/O modules are shown below.

### 2.1. Series 8 Profibus Gateway Module Hardware

The PGM supports the following functions.

- Redundancy
- Cold start command
- Experion LX by Experion events and alarms
- Experion LX by Experion Bulk Build utility
- Experion LX by Experion import/export functionality
- Qualification and Version Control
- Peer-to-peer communications

#### Series 8 IOTA Layout

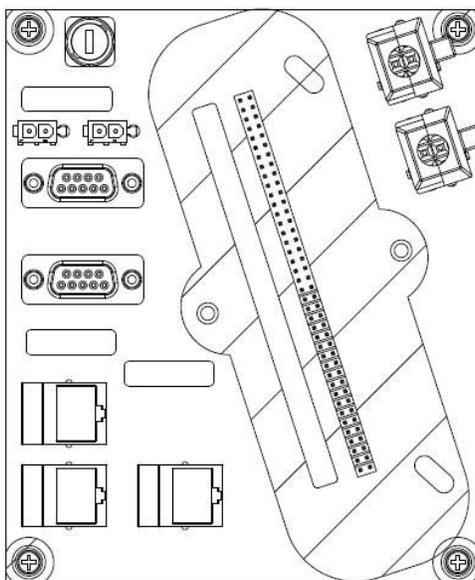


Figure 3 - . Series 8 PGM IOTA Layout

#### IOTA Characteristics:

- Standard six inch Series 8 IOTA
- Mounts onto a standard Series 8 carrier channel assembly. Power per header board though cables.
- Redundancy is configured with two IOTAs interconnected by a redundancy sync cable (orange CAT5e, uses the same as those used for C300 redundancy).
- Provides two to 9-pin D-subminiature female PROFIBUS network connections.
- Each 9-pin D-sub connector provides 5 VDC +/-5% for terminator bias voltage (power is sourced from the PGM module).
- Provides Cat5e connections for standard FTE cables.
- Provides 3 rotary switches to set FTE device index (address)

**Series 8 PGM Connections:**

As with all Series 8 modules, the PGM mounts on a Series 8 IOTA (I/O Terminal Assembly). There is only one (6 inch) IOTA for the PGM. Redundancy is accomplished using two IOTAs, two PGMs, and an interconnecting sync cable.

**IOTA connectors:**

FTE A (yellow) and FTE B (green) CAT5e connectors.

A DB9F connector for DP network 1 (top) and 2 (bottom).

A CAT5e connector for the redundancy sync cable. This is used when the PGM is configured in a redundant configuration. The sync cable interconnects to the primary and backup IOTA and PGM modules.

Three thumb wheel switches to establish the PGM FTE index address. When redundant, primary PGM is assigned an odd address and backup is set to the next even address.

As with all Series 8 modules and IOTAs, power and grounding is accomplished using the I/O Link cables and header board arrangement.

**Detailed Specifications, Modules, and Capacities – Profibus Gateway Module**

Parameter		Specification
Input / Output Model		8C-IP0102, PROFIBUS Gateway ASSY, Coated 8U- IP0102, PROFIBUS Gateway ASSY, Uncoated
IOTA (64pt) PWA		8C-TPOXA1, Coated 8U-TPOXA1, Uncoated
Supervisory network type		Series 8 PGM is a standard FTE node.
Voltage Rating		24 VDC
Module current rating		430 mA
Temperature	Operating Temperature	0 to 60 °C
	Storage temperature	-40 to 85 °C
Series 8 PGM mounting		Mounts on the standard Series 8 mounting assembly (on an IOTA) and must mount in a standard Series 8 cabinet.
Series 8 PGM power and grounding		Must use the standard Series 8 power system.
PROFIBUS DP (V0) supported?		Yes – including standard and extended status bytes.
PROFIBUS DP (V1) supported?		PGM acts as a DP Master Class-2 device for FDM. FDM uses vendor provided DTMs to enable DPV1 messaging over the DP network. Profidrive DSB has some V1 capabilities (see users manual).
Module Removal and Insertion Under Power		Supported
PROFIBUS DP (V2) supported?		Not supported in release R110.
DP network media redundancy		Supported using 3rd party Redundancy Link Modules (like ABB RLM and Siemens Y Link).
DP Slave device redundancy		DP network can include redundant slaves. PGM has no V1 capability with respect to Slave redundancy. FDM may be able to manage this using vendor supplied DTMs.
PROFIBUS PA and PA devices supported?		Yes, using 3rd party PA to DP converters/couples.
Asset Management?		Yes- Using Honeywell FDM. PGM acts as a Master Class-2 device allowing FDM to access the DP network and DP Slaves. FDM utilizes DTMs to communicate with DP slaves.
Simulation supported?		No simulation capabilities for R110.
HART over PROFIBUS support		Yes – Using FDM and Slaves that support HART devices.
Agency certifications		
		 Class I, Division 2, Group A, B, C, D; T4 Class I, Zone 2 AEx/ Ex nA II C T4
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