PAC8000 2/2 I/O Module Carriers

These module carriers are designed for 2/2 modules and are for either 32- or 64-module addressing. If 64-slot addressing is required for a node, these carrier types must be used exclusively as they cannot be mixed with 32-slot address carriers. A range of extender carriers and cables allow for flexibility in cabinet design. Carriers can be mounted on T- or G-section DIN-rail or directly to a flat surface, and may be joined end-to-end to extend the size of an installation.

Bussed Field Power (BFP) is connected to the I/O Module Carrier for modules that require this. Each BFP connection supplies two adjacent module slots, so these modules must use the same BFP supply. Terminals are provided on the Carrier to terminate cable screens and shields.

Field terminals are “clicked” in to place on the Carrier, then are trapped in place by inserting the I/O Module and secured by the module’s screw.

I/O Module Carriers have no active components, so have very high reliability.

	8707-CA-08	8710-CA-04
Product Name	**8 Module Carrier**	**4 Module Carrier**
Lifecycle Status	Active	Active
Module Addressing	1-32	1-32
Railbus Connectors	Female In Male Out	Female In Male Out
Weight (g)	680	350
Mounting	DIN-rail (T): 7.5 x 35 mm DIN-rail (T): 15 x 35 mm DIN-rail (G) Flat Panel	DIN-rail (T): 7.5 x 35 mm DIN-rail (T): 15 x 35 mm DIN-rail (G) Flat Panel
Dimensions (W x D x H) in mm	342 x 170 x 22	178 x 170 x 22
Common PAC8000 Specifications	See Section 14 for System Specifications	See Section 14 for System Specifications

Module Carrier

The 8-module carrier with extended addressing features:

- 64-slot address bus
- Accepts up to eight SafetyNet and/or standard I/O modules
- DIN-rail or panel mounting
- Carries control signals and data on Railbus
- Distributes System Power to modules
- Distributes Bussed Field Power to modules
- Isolated earthing bar for cable screens/shields

	8709-CA-08
Product Name	**8-module Carrier - extended addressing**
Lifecycle Status	Active
Electrical Connections	
Railbus Connectors	female in, male out
Cable Screens/shield Connections	M4 screw terminals (x34)
Bussed Field Power Supply Connectors	8-pin male (x2) - The two 8-pin connectors provided at the top rear of the carrier connect power supplies for 'field power'. These supplies are routed through I/O modules that require power for their field circuits.
Dimensions (W x D x H) mm	342 x 170 x 22
Weight (g)	680
Mounting Methods	Flat panel or DIN rail
DIN-rail types	'Top hat' 35 x 7.5mm rail or 35 x 15mm rail to EN 50022 G-section rail to EN 50035

Bussed Field Power Connector

Terminal	Function
1	I/O modules 1 & 2
2	–ve (or Neutral)
3	I/O modules 1 & 2
4	+ve (or Live)
5	I/O modules 3 & 4
6	+ve (or Live)
7	I/O modules 3 & 4
8	–ve (or Neutral)

Connector and Table

The table above gives the connection details for modules 1 to 4. The second connector provides identical connections for modules 5 to 8.

Notes:
For applications with up to 4 IO Modules, it is possible to use the 4-module Carrier (8710-CA-04).

PAC8000 2/1 I/O Module Carriers

These module carriers are designed for 2/1 modules with Intrinsically Safe field wiring and are for either 32- or 64-module addressing. If 64-slot addressing is required for a node, these carrier types must be used exclusively as they cannot be mixed with 32-slot address carriers. A range of extender carriers and cables allow for flexibility in cabinet design. Carriers can be mounted on T- or G-section DIN-rail or directly to a flat surface, and may be joined end-to-end to extend the size of an installation. Terminals are provided on the Carrier to terminate cable shields and screens.

Field terminals are “clicked” in to place on the Carrier, then are trapped in place by inserting the I/O Module and secured in place by the module’s screw.

I/O Module Carriers have no active components, so have very high reliability.

2/1 modules do not employ Bussed Field Power as the 2/2 modules do. They draw all their field power requirements from the System Power supply. The current drawn from the System Power Supply is typically much higher on the 2/1 side of the node than on the 2/2 side. System Power from the 2/2 side of the node does not pass through the Railbus Isolator, but is provided by one or more 8920-PS-DC IS Power Supplies mounted on the 2/1 side of the Railbus Isolator.

	8727-CA-08	8729-CA-08	8720-CA-04
Product Name	**8 Module Carrier**	**8 Module Carrier**	**4 Module Carrier**
Lifecycle Status	Active	Active	Active
Module Addressing	1-32	1-64	1-32
Railbus Connectors	Female In Male Out	Female In Male Out	Female In Male Out
Weight (g)	680	680	350
Mounting	DIN-rail (T): 7.5 x 35 mm DIN-rail (T): 15 x 35 mm DIN-rail (G) Flat Panel	DIN-rail (T): 7.5 x 35 mm DIN-rail (T): 15 x 35 mm DIN-rail (G) Flat Panel	DIN-rail (T): 7.5 x 35 mm DIN-rail (T): 15 x 35 mm DIN-rail (G) Flat Panel
Dimensions (W x D x H) in mm	342 x 170 x 22	342 x 170 x 22	178 x 170 x 22
Common PAC8000 Specifications	See Section xx for System Specifications	See Section xx for System Specifications	See Section xx for System Specifications