



Networks and Distributed I/O Systems

The RX3i features a variety of communications options for distributed control and/or I/O. Choose from Ethernet EGD, PROFIBUS-DP, Genius and DeviceNet. These communication modules are easy to install and quick to configure.

	IC695PBM300	IC695PBS301	IC694BEM331	IC694DNM200
Product Name	PACSystems RX3i PROFIBUS Master Module, Supports DPV1 Class 1 and Class 2.	PACSystems RX3i PROFIBUS Slave Module, Supports DPV1 Class 1 and Class 2.	PACSystems RX3i Genius Bus Controller	PACSystems RX3i DeviceNet Master Module
Lifecycle Status	Active	Active	Active	Active
Module Type	PROFIBUS Master	PROFIBUS Slave	Genius Bus Controller	DeviceNet Master
Backplane Support	Universal Backplane Only. Uses PCI Bus.	Universal Backplane Only. Uses PCI Bus.	No Backplane Restrictions	CPU Rack Only
Number of Slots Module Occupies on Backplane	1	1	1	1
Protocol Support	PROFIBUS DPV1	PROFIBUS DPV1	Genius	DeviceNet
Entity Type	Master	Slave	Master	Master
Communication Ports	PROFIBUS DB-9 connector	PROFIBUS DB-9 connector	Screw Terminal	Screw Terminal
Bus Speed	12Mbaud	12Mbaud	153.6Kbaud	500Kbaud
I/O Device Update Rate				
Maximum I/O Memory				
System Maximum Limits				
Network Distance	Baud Rate Dependent. Supports all standard data rates (9.6 kBit/s, 19.2 kBit/s, 93.75 kBit/s, 187.5 kBit/s, 500 kBit/s, 1.5 MBit/s, 3 MBit/s, 6 MBit/s and 12 MBit/s)	Baud Rate Dependent. Supports all standard data rates (9.6 kBit/s, 19.2 kBit/s, 93.75 kBit/s, 187.5 kBit/s, 500 kBit/s, 1.5 MBit/s, 3 MBit/s, 6 MBit/s and 12 MBit/s)	7500 feet (2286 meters) at 38.4 Kbaud; 4500 feet (1371 meters) at 76.8 Kbaud; 3500 feet (1066 meters) at 153.6 Kbaud extended; 2000 feet (609 meters) at 153.6 Kbaud standard. Maximum length at each baud rate also depends on cable type.	500Kbaud 100 meters to 125Kbaud 500 meters. Maximum length at each baud rate also depends on cable type.
Bus Diagnostics	Yes, Slave Status Bit Array Table, Network Diagnostic Counters, DP Master Diagnostic Counters, Firmware Module Revision, Slave Diagnostic Address	Yes, Alarms	Yes	Yes
Number of Drops Supported	Up To 125 (Requires repeater every 25 nodes)	N/A	32	64
Message Size	244 bytes of input and 244 bytes of output for each slave. Not to exceed 3584 bytes input and 3584 bytes outputs total for the system.	244 bytes of input and 244 bytes of output	128 bytes	127 bytes
Connector Type	PROFIBUS Connector	PROFIBUS Connector	Screw Terminal	Screw Terminal
Internal Power Used	420 mA @ 5 VDC	420 mA @ 5 VDC	300 mA @ 5 VDC	300 mA @ 5 VDC