



Expansion Modules for Local and Remote I/O

The RX3i supports various expansion options for local and remote I/O to optimize configurations. The RX3i can be expanded up to 8 expansion bases using local remote expansion module. The RX3i also supports Ethernet remote I/O using the RX3i Ethernet Network Interface module (IC695NKT001) Series 90-30 Ethernet Network Interface module (IC693NIU004) for more distributed I/O.

	IC695LRE001	IC695NKT001	IC693NIU004
Product Name	PACSystems RX3i Expansion Module	PACSystems RX3i Ethernet Remote I/O Expansion Kit. Kit includes a NIU001 with two built-in serial ports and ETM001	PACSystems RX3i Ethernet Remote I/O Expansion (Slave)
Lifecycle Status	Active	Active	Active
Module Type	High Speed Serial Expansion Module	Ethernet Communications (Supports redundant Ethernet modules)	Ethernet Communications
Backplane Support	Universal Backplane Only	Universal Backplane Only. Uses PCI Bus.	Compatible with Series 90-30 bases only
Number of Slots Module Occupies on Backplane	No I/O slot used	3 (2 for NIU and 1 for Ethernet module)	N/A
Built-in Communication Ports	N/A	RJ-45 with built-in switch. 1 RS-485 port and one RS-232 port. Supports SNP, Serial I/O, Modbus Slave and Modbus Master	N/A
I/O Discrete Points	N/A	2048 Inputs/2048 Outputs maximum	2048 Inputs/2048 Outputs maximum
I/O Analog Points	N/A	1264 Inputs and 512 Outputs maximum	1264 Inputs and 512 Outputs maximum
User Logic Memory	N/A	5Kbytes of local logic	No local logic
Network Data Rate	1 Mbaud	10/100Mbit ports (RJ-45)	10/100Mbit ports (RJ-45)
Entity Type	Master	Slave	Slave
Network Distance	Up to 700 feet (213 meters)	Network Dependent	Network Dependent
Bus Diagnostics	Yes	Supported	Supported
Number of Drops Supported	Supports 7 local expansion racks. Discrete I/O: Maximum 320 In, 320 Out, Analog I/O: Maximum 160 In, 80 Out per base	Network Dependent Each Ethernet NIU can also support up to 7 additional local I/O racks (IC694CHSxxx)	Network Dependent Each Ethernet NIU can also support up to 7 additional local I/O racks (IC694CHSxxx)
Internal Power Used	132 mA @ 5 VDC	1250 mA @ 3.3 VDC; 1000 mA @ 5 VDC for NIU controller and 840 mA @ 3.3 VDC; 614 mA @ 5 VDC for each Ethernet module	1.4 Amps @ 5 VDC