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.

	IC695NKT001	IC693NIU004	IC695LRE001
Product Name	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)	PACSystems RX3i Expansion Module
Lifecycle Status	Active	Active	Active
Module Type	Ethernet Communications (Supports redundant Ethernet modules)	Ethernet Communications	High Speed Serial Expansion Module
Backplane Support	Universal Backplane Only. Uses PCI Bus.	Compatible with Series 90-30 bases only	Universal Backplane Only
Number of Slots Module Occupies on Backplane	3 (2 for NIU and 1 for Ethernet module)	N/A	No I/O slot used
Built-in Communication Ports	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	N/A
I/O Discrete Points	2048 Inputs/2048 Outputs maximum	2048 Inputs/2048 Outputs maximum	N/A
I/O Analog Points	1264 Inputs and 512 Outputs maximum	1264 Inputs and 512 Outputs maximum	N/A
User Logic Memory	5Kbytes of local logic	No local logic	N/A
Network Data Rate	10/100Mbit ports (RJ-45)	10/100Mbit ports (RJ-45)	1 Mbaud
Entity Type	Slave	Slave	Master
Network Distance	Network Dependent	Network Dependent	Up to 700 feet (213 meters)
Bus Diagnostics	Supported	Supported	Yes
Number of Drops Supported	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)	Supports 7 local expansion racks. Discrete I/O: Maximum 320 In, 320 Out, Analog I/O: Maximum 160 In, 80 Out per base
Internal Power Used	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	132 mA @ 5 VDC