



### 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
<b>Product Name</b>	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)
<b>Lifecycle Status</b>	Active	Active	Active
<b>Module Type</b>	High Speed Serial Expansion Module	Ethernet Communications (Supports redundant Ethernet modules)	Ethernet Communications
<b>Backplane Support</b>	Universal Backplane Only	Universal Backplane Only. Uses PCI Bus.	Compatible with Series 90-30 bases only
<b>Number of Slots Module Occupies on Backplane</b>	No I/O slot used	3 (2 for NIU and 1 for Ethernet module)	N/A
<b>Built-in Communication Ports</b>	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
<b>I/O Discrete Points</b>	N/A	2048 Inputs/2048 Outputs maximum	2048 Inputs/2048 Outputs maximum
<b>I/O Analog Points</b>	N/A	1264 Inputs and 512 Outputs maximum	1264 Inputs and 512 Outputs maximum
<b>User Logic Memory</b>	N/A	5Kbytes of local logic	No local logic
<b>Network Data Rate</b>	1 Mbaud	10/100Mbit ports (RJ-45)	10/100Mbit ports (RJ-45)
<b>Entity Type</b>	Master	Slave	Slave
<b>Network Distance</b>	Up to 700 feet (213 meters)	Network Dependent	Network Dependent
<b>Bus Diagnostics</b>	Yes	Supported	Supported
<b>Number of Drops Supported</b>	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)
<b>Internal Power Used</b>	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