



This datasheet is for the

IC695CPU315

<http://qualitrol.com/p-16543-ic695cpu315.aspx>

The IC695CPU315 is an Rx3i CPU with 2 built-in serial ports. The IC695CPU315 for the Rx3i has 64 Megabytes of user logic memory.

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**CPUs**

The high-performance CPU is based on the latest technology processor with fast computation and high throughput. The controller can manage up to 32K of I/O in a number of standard languages. The powerful CPU enables complex applications to be easily solved with the high performance processor and up to 64 Mbytes of user memory. The RX3i supports multiple IEC languages and C programming to give you program flexibility. The RX3i increases machine cycle times, reduces downtime with its extensive diagnostics and hot swap capability, and enables you to store large amounts of data to reduce external hardware cost.

	IC695CPE305	IC695CPE310	IC695CPU320	IC695CPU315
<b>Product Name</b>	RX3i CPU with built-in USB Master port, Ethernet port and serial port	RX3i CPU with built-in USB Master port, Ethernet port and 2 serial ports	RX3i CPU with two built-in serial ports	RX3i CPU with two built-in serial ports
<b>Lifecycle Status</b>	Active	Active	Active	Active
<b>Module Type</b>	Controller	Controller	Controller	Controller
<b>Backplane Support</b>	Universal Backplane Only. Uses PCI Bus.	Universal Backplane Only. Uses PCI Bus.	Universal Backplane Only. Uses PCI Bus.	Universal Backplane Only. Uses PCI Bus.
<b>Boolean Execution Speed (ms/K)</b>	.072	.072	0.047	0.047
<b>User Logic Memory</b>	5Meg bytes	10Meg bytes	64Mega bytes	20Meg bytes
<b>Battery Backed Real Time Clock</b>	Yes	Yes	Yes	Yes
<b>Dynamic Data Back-up</b>	Energy Pack Support (Battery-less Backup)	Energy Pack Support (Battery-less Backup)	Battery Backup only	Battery Backup only
<b>I/O Discrete Points</b>	32K	32K	32K	32K
<b>I/O Analog Points</b>	32K	32K	32K	32K
<b>Type of Memory Storage</b>	SRAM, Flash	SRAM, Flash	SRAM, Flash	SRAM, Flash
<b>Processor Speed (MHz)</b>	1.1GHz	1.1GHz	1GHz	1GHz
<b>USB -A 2.0 Master Port</b>	Yes. CPU application upload/download to a Thumb Drive or Smart Phone	Yes. CPU application upload/download to a Thumb Drive or Smart Phone	No	No
<b>Built-in Ethernet Ports</b>	One RJ-45 port, 10/100Mbaud. SRTIP support for programmer only	One RJ-45 port, 10/100Mbaud. SRTIP support for programmer only		
<b>Built-in Serial Ports</b>	One RS-232 port. Supports SNP, Serial I/O, Modbus Slave and Modbus Master (Application code)	One RS-485 port and one RS-232 port. Supports SNP, Serial I/O, Modbus Slave and Modbus Master (Application code)	One RS-485 port and one RS-232 port. Supports SNP, Serial I/O, Modbus Slave and Modbus Master (Application code)	One RS-485 port and one RS-232 port. Supports SNP, Serial I/O, Modbus Slave and Modbus Master (Application code)
<b>Total Number of Local Racks</b>	8	8	8	8
<b>Communications Options</b>	Serial, Genius, CMX (Reflective Memory), Ethernet			
<b>Field Busses/Device Networks</b>	Ethernet (PROFINET, Ethernet Global Data, Channels, Modbus TCP Server and Client), Genius, PROFIBUS DP, DeviceNet			
<b>Software Programming Support</b>	Proficy Machine Edition Logic Developer Professional edition 7.0 SIM 3 or above	Proficy Machine Edition Logic Developer Professional edition 7.0 SIM 3 or above	Proficy Machine Edition Logic Developer Professional edition 5.6 or above	Proficy Machine Edition Logic Developer Professional edition 5.6 or above
<b>Program Languages Supported</b>	Ladder Logic, Structured Text, C, Function Block Diagram	Ladder Logic, Structured Text, C, Function Block Diagram	Ladder Logic, Structured Text, C, Function Block Diagram	Ladder Logic, Structured Text, C, Function Block Diagram
<b>Internal Power Used</b>	+3.3 VDC: 1.0 A +5 VDC: 1.0 A (up to 1.5 A if USB is fully loaded with 0.5 A) +24 VDC: 0.5A at startup, 0.1 A during run time (Applies only if Energy Pack is connected to the CPE305.)	+3.3 VDC: 1.0 A +5 VDC: 1.0 A (up to 1.5 A if USB is fully loaded with 0.5 A) +24 VDC: 0.5A at startup, 0.1 A during run time (Applies only if Energy Pack is connected to the CPE305.)	1750 mA @ 3.3 VDC; 1200 mA @ 5 VDC	1750 mA &#64; 3.3VDC; 1200 mA &#64; 5VDC (Check Data sheet)
<b>Number of Slots Module Occupies on Backplane</b>	1	2	2	2