

Series 90-70



Communications Modules

PACSystems and Series 90-70 feature a variety of communications options for distributed control and/or I/O, supporting a wide range of communication protocols and configurations. These communication modules are easy to install and quick to configure. Some distributed I/O communications modules allow for numerous remote drops or additional racks, while others provide an interface for GE Fanuc products up to 7500 feet away from the controller.

	IC697CMM742	IC697CMM711	IC697RCM711	IC697VRM015
Product Name	Ethernet Interface (Type 2) Module	Communications Coprocessor	Redundancy Communications Module	Fiber-Optic Reflective Memory with Interrupts
Module Type	Ethernet Interface	Communications Coprocessor	Redundancy Communications (Hot Standby)	Reflective Memory
Supports Redundancy	No	No	Yes	No
Protocols Supported	N/A	SNP/SNPX (master, slave), CCM (master, slave,peer), RTU Modbus (slave only)	N/A	N/A
Effective Data Rate	19200 bps Serial, 10 Mbps IEEE	N/A	500 Kbytes/sec	N/A
Electrical Isolation	N/A	N/A	Non-isolated differential communication	N/A
Communications Processor Speed	N/A	12 MHz (80C186)	N/A	N/A
Simultaneous Communication Speed	N/A	9.6 Kbps	N/A	N/A
Individual Communication Speed	N/A	19.2 Kbps	N/A	N/A
RCM Maximum Cable Length	N/A	N/A	50 feet (15 meters)	N/A
Reflective Memory Available	N/A	N/A	N/A	256 Kbytes of Reflective Memory
Distance Between Nodes	N/A	N/A	N/A	Up to 2000 meters (up to 256 nodes)
Access Time	N/A	N/A	N/A	200 ns (best-case), 400 ns (worst-case)
Transfer Rate	N/A	N/A	N/A	6.2 Mbyte/s without redundant transfer, 3.2 Mbyte/s with redundant transfer
Cable Requirements	N/A	N/A	N/A	ST Type Fiber-Optic cables Multimode; 62.5 Micron core
Built-in Serial Ports	5 (RS-232, RS-485, 10BaseT, AUP, 10Base2)	2 (Serial RS-422 / RS485 or RS-232)	2 (BTM or BRM, bottom connector is UNUSED)	Compatible with Fiber Optic Cable
Current Required from 5V Bus	2.0 Amps	0.7 Amp	1.2 Amps	5.0 Amps maximum