

New Features and Enhancements

The RX3i Ethernet interfaces provides the following features and enhancements compared with the Series 90-30 Ethernet interface, the Series 90-30 embedded Ethernet CPUs, and PACSystems RX7i Ethernet.

Feature	RX3i	Series 90-30			RX7i	
	IC695ETM001	IC693CPU374	IC693CPU364	IC693CMM321	IC698CPE0x0	IC698ETM001
Ethernet Port(s)	2 RJ-45; Autosensing Half/Full Duplex; 10/100 Mbps	2 RJ-45; Autosensing Half/Full Duplex; 10/100 Mbps	AAUI or 10BaseT; Half Duplex; 10 Mbps	AAUI or 10BaseT; Half Duplex and configurable Full Duplex; 10 Mbps	2 RJ-45; Autosensing Half/Full Duplex; 10/100 Mbps	2 RJ-45; Autosensing Half/Full Duplex; 10/100 Mbps
LEDs	EOK/LAN/LOG EMPTY	EOK/LAN/STAT	EOK/LAN/STAT	OK/LAN/FDX/ST AT	EOK/LAN/STAT	EOK/LAN/STAT
Local Station Manager Port	9 pin D	RJ-11	RJ-11	RJ-11	9 pin D	9 pin D
Station Manager Cable	IC200CBL001	IC693ACC316	IC693ACC316	IC693ACC316	IC200CBL001	IC200CBL001
SRTP Server connections	48	20	20	20	48	48
EGD exchanges (per CPU)	255	128	128	None	255	255
SRTP Channels	None	None	16	16	None	None
Modbus TCP/IP Channels	None	None	None	16	None	None
Web Server	No	No	No	No	Yes	No
TCP connections	64	20	20	20	64	64
IP Address Assignment over network	SetIP utility, BOOTP	SetIP utility	BOOTP	BOOTP	SetIP utility, BOOTP	SetIP utility, BOOTP
Name Resolution	None	None	Full	Local only	None	None
EGD Class 2 (includes Reliable Data Service)	Yes	No	No	No	Yes	Yes
EGD Signatures support	Yes (requires future Machine Edition service pack)	No	No	No	Yes	Yes

Restrictions and Open Issues

Subject	Description
Number of SRTP Requests Tallied May Vary	When running multiple SRTP client channels, the number of requests, as reported by the client and the server, may differ between the connections.
SRTP Connections Remain Open After IP Address Changed	The Ethernet Interface does not terminate all open SRTP connections before changing its IP address. Once the local IP address has changed, any existing open TCP connections are unable to normally terminate. This can leave SRTP connections open until their underlying TCP connections time out. If quicker recovery of the SRTP connection is needed, modify the "wka_idle" Advanced User Parameter to reduce the TCP keep alive timer down to the desired maximum time for holding open the broken connection. Refer to <i>TCP/IP Ethernet Communications for PACSystems</i> , GFK-2224, for details.
Reporting of Duplicate IP Address	The Ethernet Interface does not log an exception or a fault in the PLC Fault Table when it detects a duplicate IP address on the network.
REPP Does Not Save Results of Aborted PING	The Station Manager REPP command does not retain the results of a PING that is aborted due to error. The PING results are reported when the PING is aborted, but subsequent REPP commands give the results of the last successfully terminated PING.