

IC693CMM321

Series 90-30 TCP/IP Ethernet Interface Module

General Electric IC693CMM321 is a Series 90-30 TCP/IP Ethernet interface module. It exchanges controller data with compatible PLC, programming and supervisory nodes through SRTP and Modbus/TCP services on an Ethernet LAN.

PRODUCT SNAPSHOT

BRAND

General Electric

FAMILY

Series 90-30 PLC Ethernet Communications

PART

IC693CMM321

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PRODUCT OVERVIEW

General Electric IC693CMM321 is a Series 90-30 TCP/IP Ethernet interface module. It exchanges controller data with compatible PLC, programming and supervisory nodes through SRTP and Modbus/TCP services on an Ethernet LAN.

1

Connects an IC693 Series 90-30 PLC to an Ethernet TCP/IP network

2

Provides SRTP communication for PLC, programming and supervisory nodes

3

Supports Modbus/TCP master and slave communication roles

4

Maintains a controlled Station Manager path for network setup and service

SYSTEM COMPONENTS

compatible IC693 Series 90-30 CPU and baseplate

Ethernet LAN transceiver and installed network medium

IC693CBL316 Station Manager cable for the documented firmware procedure

approved PLC programming or HMI/SCADA workstation

TECHNICAL DATA

PARAMETER	VALUE
Module function	Factory LAN TCP/IP Ethernet interface
PLC platform	IC693 Series 90-30
Network stack	TCP/IP over Ethernet LAN
Service Request protocol	SRTP
Modbus roles	Modbus/TCP master and slave

PARAMETER	VALUE
Latest documented catalog revision	IC693CMM321-KN
Latest documented Ethernet firmware	Version 3.20
Documented full-duplex introduction	Revision -FG; firmware 3.00
Documented Modbus/TCP introduction	Revision -GH; firmware 3.10
Firmware service cable	IC693CBL316 Station Manager cable

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
IC693CMM321	Series 90-30 TCP/IP Ethernet interface module	View IC693CMM321 page
IC695CHS016	PACSystems RX3i 16-slot universal backplane	View IC695CHS016 page
IC695CPE305	PACSystems RX3i CPE305 controller	View IC695CPE305 page
IC695ALG600	PACSystems RX3i universal analog input module	View IC695ALG600 page
IC693ALG391	Series 90-30 analog output module	View IC693ALG391 page
AD4000189-530	Schneider cable assembly	View AD4000189-530 page
3BSE004725R1-DSTD196	ABB DSTD 196 connection unit	View 3BSE004725R1-DSTD196 page
330171-00-12-50-01-05	Bently Nevada 3300 proximity probe	View 330171-00-12-50-01-05 page

Install IC693CMM321 only in the documented Series 90-30 hardware arrangement and preserve its Ethernet, Station Manager and loader connections. Before firmware service, confirm the full hardware suffix and provide uninterrupted PLC power for the entire reprogramming sequence.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Series 90-30 PLC programming access over the plant Ethernet network

Connects an IC693 Series 90-30 PLC to an Ethernet TCP/IP network

HMI and SCADA exchange with an installed IC693 controller

Provides SRTP communication for PLC, programming and supervisory nodes

Modbus/TCP integration between legacy control and supervisory equipment

Supports Modbus/TCP master and slave communication roles

Controlled migration assessment for existing Series 90 Ethernet nodes

Maintains a controlled Station Manager path for network setup and service

PRODUCT PRECAUTIONS

- 1 Verify the complete IC693CMM321 hardware suffix and installed firmware before changing the module or loading software.
- 2 Place the Series 90-30 controller and connected process in the approved maintenance state before network work.
- 3 Isolate applicable rack and network energy, then use ESD controls when handling IC693CMM321.
- 4 Record the installed IP parameters, SRTP channels, Modbus/TCP mapping and Station Manager information before replacement.
- 5 Keep Ethernet transceiver, network-medium and Station Manager connections in their documented locations.
- 6 Use the IC693CBL316 service cable where required by the documented firmware-update procedure.
- 7 Do not interrupt PLC power while the software loader or TCP/IP firmware is being reprogrammed.
- 8 After installation, confirm module LEDs, station diagnostics, PLC communications and every required client/server path under controlled conditions.

ENGINEER FAQ

Q1 Does IC693CMM321 match compatible IC693 Series 90-30 CPU and baseplate in a Series 90-30 PLC programming access over the plant Ethernet network installation?

Verify the complete IC693CMM321 marking, the documented Series 90-30 PLC Ethernet Communications position and the installed compatible IC693 Series 90-30 CPU and baseplate before fitting the assembly.

Q3 Which Series 90-30 PLC Ethernet Communications records should be captured before removing IC693CMM321?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with IC693CMM321 before disconnection.

Q5 Which Ethernet LAN transceiver and installed network medium condition should be checked when IC693CMM321 reports an abnormal state?

Check the Ethernet LAN transceiver and installed network medium supply, seating and connection first, then compare channel diagnostics with the recorded IC693CMM321 baseline.

Q7 What maintenance evidence is required after IC693CMM321 is used for Modbus/TCP integration between legacy control and supervisory equipment?

Retain the nameplate record, corrective action, final diagnostics and a controlled modbus/tcp integration between legacy control and supervisory equipment functional-test result for IC693CMM321.

Q2 How should IC693CMM321 be wired when it must connects an ic693 series 90-30 plc to an ethernet tcp/ip network?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for IC693CMM321; then continuity-test the affected path.

Q4 What controlled test confirms that IC693CMM321 can provides srtp communication for plc, programming and supervisory nodes?

Apply the approved field or simulated stimulus, observe the Series 90-30 PLC Ethernet Communications indication and confirm the intended response without bypassing the normal interlocks.

Q6 Can IC693CMM321 be moved directly into HMI and SCADA exchange with an installed IC693 controller without validating approved PLC programming or HMI/SCADA workstation?

No. Confirm the approved PLC programming or HMI/SCADA workstation, revision, connection scheme and Series 90-30 PLC Ethernet Communications configuration before transferring IC693CMM321 to that duty.

Q8 How should IC693CMM321 be returned to service in Controlled migration assessment for existing Series 90 Ethernet nodes?

Restore power under control, verify supports modbus/tcp master and slave communication roles, exercise the intended signal path and release IC693CMM321 only after the Series 90-30 PLC Ethernet Communications remains in its approved operating state.

SOURCE Factory LAN TCP/IP Ethernet Interface Module for Series 90-30 PLC Important Product Information | GFK-1085X, December 2012; 35-F161-0053, 5th issue 2010 © apterpower.com | www.apterpower.com