

INDUSTRIAL AUTOMATION PRODUCT

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.

IDENTITY	VERIFIED VALUE
Manufacturer	General Electric
System family	Series 90-30 PLC Ethernet Communications
Part number	IC693CMM321
Country	USA
HS code	8537101190

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2

Technical Specifications

Technical values below are limited to the named General Electric product record.

PARAMETER	TECHNICAL 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
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

ENGINEERING DATA SUMMARY

DATA GROUP	VERIFIED ASSIGNMENT
Installed host / carrier	compatible IC693 Series 90-30 CPU and baseplate
Companion hardware	Ethernet LAN transceiver and installed network medium
Field connection	IC693CBL316 Station Manager cable for the documented firmware procedure
Primary system function	Connects an IC693 Series 90-30 PLC to an Ethernet TCP/IP network
Controlled acceptance duty	Series 90-30 PLC programming access over the plant Ethernet network

3

System Role and Architecture

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.

FUNCTION 1
Connects an IC693 Series 90-30 PLC to an Ethernet TCP/IP network

FUNCTION 2
Provides SRTP communication for PLC, programming and supervisory nodes

FUNCTION 3
Supports Modbus/TCP master and slave communication roles

FUNCTION 4
Maintains a controlled Station Manager path for network setup and service

Matched 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

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	compatible IC693 Series 90-30 CPU and baseplate
Companion hardware	Ethernet LAN transceiver and installed network medium
Field connection	IC693CBL316 Station Manager cable for the documented firmware procedure
Primary system function	Connects an IC693 Series 90-30 PLC to an Ethernet TCP/IP network
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4

Applications and Engineering Context

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

TECHNICAL NOTE

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.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	IC693CMM321 / IC693CMM321 recorded
Physical interface	compatible IC693 Series 90-30 CPU and baseplate
Companion check	Ethernet LAN transceiver and installed network medium
Functional proof	Connects an IC693 Series 90-30 PLC to an Ethernet TCP/IP network
Application test	Series 90-30 PLC programming access over the plant Ethernet network

5 Engineering 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.

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

MANUFACTURER SOURCE RECORD

Factory LAN TCP/IP Ethernet Interface Module for Series 90-30 PLC Important Product Information
GFK-1085X, December 2012; GFK-1085U, January 2010

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