

IC693CMM321

Series 90-30 TCP/IP Ethernet Interface Module

CONTROLLED ENGINEERING COPY

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.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	IC693CMM321
Manufacturer part	IC693CMM321
Hardware type	Factory LAN TCP/IP Ethernet interface
System family	Series 90-30 PLC Ethernet Communications



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01 PRE-INSTALLATION PLAN

- 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.

MATCHED HARDWARE

- 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

INSTALLATION CONTROL RECORD

CONTROL ITEM	REQUIRED RECORD
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

02 WIRING & INTERFACE CHECKS

CHECK ITEM	REQUIRED 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

FIELD 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.

03 COMMISSIONING WORKFLOW



COMMISSIONING ACCEPTANCE EVIDENCE

EVIDENCE ITEM	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

04 RETURN-TO-SERVICE RECORD

- ☐ Use the IC693CBL316 service cable where required by the documented firmware-update procedure.
- ☐ Do not interrupt PLC power while the software loader or TCP/IP firmware is being reprogrammed.
- ☐ After installation, confirm module LEDs, station diagnostics, PLC communications and every required client/server path under controlled conditions.
- ☐ Confirm the intended process response before normal operation.

VERIFICATION RECORD

TECHNICIAN

DATE

CABINET / POSITION

FINAL DIAGNOSTIC STATE

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

SOURCE IDENTIFIERS

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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