

CBBEXP 1732E-16CFG12QCR

CBBEXP 1732E-16CFG12QCR 2-Port EtherNet/IP Module User Manual

1. INTRODUCTION

This manual provides essential information for the installation, operation, maintenance, and troubleshooting of the CBBEXP 1732E-16CFG12QCR 2-Port EtherNet/IP Module. This module is designed to facilitate communication between industrial devices and an EtherNet/IP network, offering robust and reliable data exchange in automation environments. Please read this manual thoroughly before attempting to install or operate the device.

2. SAFETY INFORMATION

Warning: Improper installation or operation can result in personal injury, equipment damage, or system malfunction. Always adhere to local and national electrical codes.

- Ensure power is disconnected before performing any installation, wiring, or maintenance.
- Only qualified personnel should install, operate, and maintain this equipment.
- Protect the module from excessive vibration, shock, moisture, and extreme temperatures.
- Use appropriate personal protective equipment (PPE) when working with electrical systems.

3. PRODUCT OVERVIEW

The CBBEXP 1732E-16CFG12QCR is a compact 2-port EtherNet/IP module designed for distributed I/O applications. It features M12 connectors for secure and reliable industrial network connections, ensuring stable communication in harsh environments. The module acts as an interface, allowing various field devices to communicate over an EtherNet/IP network.

4. SETUP

4.1. Mounting

The module is typically designed for DIN rail mounting. Follow these steps:

1. Ensure the DIN rail is securely fastened within the control cabinet.
2. Hook the top edge of the module onto the DIN rail.
3. Press the bottom edge of the module firmly until it clicks into place.
4. Verify that the module is securely attached and does not wobble.

4.2. Wiring

Before wiring, ensure all power sources are disconnected.

- **Power Connection:** Connect the appropriate DC power supply (e.g., 24V DC) to the module's power input terminals. Observe correct polarity.
- **EtherNet/IP Connections:** Use M12 Ethernet cables to connect the module's two EtherNet/IP ports to your network switch or other EtherNet/IP devices. Ensure cables are properly seated and tightened.

4.3. Network Configuration

The module requires an IP address to communicate on the EtherNet/IP network. This can be assigned via DHCP or statically configured using appropriate software tools (e.g., RSLinx Classic, Studio 5000 Logix Designer, or a generic EtherNet/IP configuration utility). Refer to your network's IT policies and the software documentation for detailed configuration steps.

5. OPERATING

5.1. Power Up

After all connections are secure, apply power to the module. Observe the LED indicators for status.

5.2. LED Indicators

The module typically features several LED indicators to provide operational status:

- **PWR (Power):** Indicates power status. Green for normal operation.
- **NET (Network Status):** Indicates EtherNet/IP network communication status. Green for healthy, flashing for activity, red for errors.
- **MOD (Module Status):** Indicates the module's internal status. Green for healthy, flashing for configuration issues, red for faults.
- **PORT 1/2 (Link/Activity):** Indicates link status and data activity for each EtherNet/IP port.

Refer to the module's specific documentation for a detailed explanation of all LED states.

5.3. Data Communication

Once configured and connected, the module will facilitate data exchange between connected field devices and the EtherNet/IP controller. Monitor the network and module status LEDs to ensure proper communication.

6. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of the module.

- **Cleaning:** Periodically clean the module's exterior with a soft, dry cloth. Do not use solvents or

abrasive cleaners. Ensure ventilation openings are free from dust and debris.

- **Inspection:** Regularly inspect all wiring connections for tightness and signs of damage. Check for secure mounting on the DIN rail.
- **Firmware Updates:** Check the manufacturer's website periodically for firmware updates. Follow the provided instructions carefully for any update procedures.

7. TROUBLESHOOTING

This section provides guidance for common issues. For complex problems, contact technical support.

Problem	Possible Cause	Solution
No Power (PWR LED off)	No power supply, incorrect wiring, faulty power supply.	Verify power supply connection and voltage. Check wiring polarity. Test power supply.
Network Communication Error (NET LED red)	Incorrect IP address, faulty Ethernet cable, network switch issue, no network connection.	Verify IP address settings. Check Ethernet cable for damage. Ensure network switch is operational. Confirm physical network connection.
Module Fault (MOD LED red)	Internal fault, incorrect configuration.	Power cycle the module. Re-verify configuration settings. If fault persists, contact support.
No Communication with Field Devices	Incorrect device addressing, wiring issues to field devices, device fault.	Check addressing of connected devices. Verify wiring to field devices. Inspect field devices for faults.

8. SPECIFICATIONS

Parameter	Value
Model Number	1732E-16CFGM12QCR
Manufacturer	CBBEXP
Connectivity	2-Port EtherNet/IP (M12 Connectors)
Mounting Type	DIN Rail
ASIN	B0C4HLF591
Date First Available	May 6, 2023

9. WARRANTY

This CBBEXP 1732E-16CFGM12QCR module comes with a **1-year warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. It does not cover damage caused by improper installation, misuse, unauthorized modification, or external factors such as power surges or environmental conditions outside the specified operating range. For warranty claims, please retain your proof of purchase and contact the seller or manufacturer.

10. SUPPORT

For technical assistance, product inquiries, or warranty support, please contact your vendor or the CBBEXP customer service department. Have your product model number (1732E-16CFGM12QCR) and purchase information ready when contacting support.