

Allen-Bradley 1768-ENBT Manual

Brand	Allen-Bradley
Product Series	1746 1747
Product Type	Ethernet Communication Module

Description

The Allen-Bradley 1768-ENBT is a CompactLogix module. This module is part of the 1768 CompactLogix product family that enables a CompactLogix assembly to communicate with devices connected to Ethernet I/P network. This module features One (1) Ethernet port supporting 10/100 Mbps half and full-duplex communication, with auto-negotiation capability, in half-duplex or full-duplex

Technical specifications for 1768-ENBT

Module Type Ethernet Communication Module

Manufacturer Allen Bradley

Integrated Ports: One (1) Ethernet

Series CompactLogix

ContrEthernet Topology:olNet Topology: Linear Topology

Compatible Controllers: 1768-L43 / 1768-L45

Supported no. of instances: Two (2) with 1768-L43; Four (4) with 1768-L45

Ethernet Speed: 10/100 Mbps

Maximum no. of Connections: 64 (1768-L43 Ethernet TCP/IP)

Cable: Category 5 / Category 6 cable

Connectors: RJ45

Mounting Type: DIN Rail or Panel Mount

Mounting Location: 1768 CompactLogix

Operating Vibration: 5 g @ 10 - 500 Hz

Operating Shock: 30 g

Operating Temperature: 0° to +60°C (+32° to +140°F)

Backplane current: 834 mA at 5.2V DC

Power consumption 4.34 Watts

Brand Allen-Bradley

Part Number/Catalog No. 1768-ENBT

Product Line CompactLogix

Shipping Weight 2 pounds

Shipping Dimensions 8 x 8 x 5 inches

UPC 10612598307521 Description

The Allen-Bradley 1768-ENBT is a CompactLogix communication adapter that supports Ethernet protocol. This module is part of the Bulleting 1768 Product family that is compatible for use with CompactLogix 1768-L43 and 1768-L45 Programmable Automation Controllers (PAC). It enables a CompactLogix rack to communicate with devices connected in the Ethernet I/P network. It may be used as communication interface to exchange data between Supervisory Control and Data Acquisition (SCADA) systems, Human Machine Interface (HMI) as well as communicate with partner controllers to implement inter-controller messaging functions.

The 1768-ENBT is supplied with One (1) Ethernet communication interface that support Fast Ethernet communication rate such as 10/100 Mbps with auto-negotiation capability. Connection may be established using a pre-made or custom assembled LAN cable which is typically made of a Cat5 or Cat6 cable and RJ45 connectors on both ends.

The 1768-ENBT is a single slot module that occupies a single slot of the 1768 assembly. It may be used with commercially available

ethernet switches or industrial grade ethernet switches such as the Stratix unmanaged and managed switches. It may also communicate with the legacy Allen-Bradley 1336 Drives, PowerFlex Adjustable Frequency AC Drives, Power Monitoring systems, Bulletin 150 Smart Controller, Motor Starters, Kinetix Servo Drives, ControlLogix automation platform as well as 3rd party devices.

The 1768-ENBT Ethernet communication module supports implementation of Common Industrial Protocol (CIP) over ethernet wherein up to 64 devices and 32 TCP/IP connections can be established. For a CompactLogix system utilizing 1768-L43 processor. Up to Two (2) 1768-ENBT may be used while up to Four (4) 1768-ENBT may be used with 1768-L45 processor.

The recommended precautions prior to the installation and handling of the module include having the users touch a grounded object first in order to discharge themselves, having them wear a static-free wristband, and having them work with the module in a static-free workstation.

The Allen-Bradley 1768-ENBT Ethernet/IP module comes with several status indicators such as link status indicator, an OK status indicator, and a network status indicator. When turning off the power on the Allen-Bradley 1768-ENBT Ethernet/IP module, users need to wait until the lights of the status indicator are turned off. This will help save any project that is still being written to the memory at that moment.

Technical Specifications

Module Type Ethernet Communication Module

Manufacturer Allen Bradley

Integrated Ports: One (1) Ethernet

Series CompactLogix

ContrEthernet Topology: RingNet Topology: Linear Topology

Compatible Controllers: 1768-L43, 1768-L45

Supported no. of instances: Two (2) with 1768-L43; Four (4) with 1768-L45

Ethernet Speed: 10/100 Mbps

Maximum no. of Connections: 64 CIP / 32 Ethernet TCP/IP

Cable: Category 5 / Category 6 cable

Connectors: RJ45

Mounting Type: DIN Rail or Panel Mount

Mounting Location: 1768 CompactLogix

Operating Vibration: 5 g @ 10 - 500 Hz

Operating Shock: 30 g

Operating Temperature: 0° to +60°C (+32° to +140°F)

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