

1766-L32BXB

MicroLogix 1400 32-point controller

embedded digital I/O, serial communications and Ethernet controller data

PRODUCT SNAPSHOT

BRAND

Allen-Bradley

FAMILY

Allen-Bradley MicroLogix 1400 control syst

PART

1766-L32BXB

PRODUCT TYPE

MicroLogix 1400 32-point controller

APTER POWER SALES TEAM

WHATSAPP / PHONE

+86 180 3023 5313

EMAIL

sales13@apterpower.com

WEBSITE

www.apterpower.com



PRODUCT OVERVIEW

embedded digital I/O, serial communications and Ethernet controller data

1

Provides twenty embedded digital inputs

2

Provides six relay and six DC transistor outputs

3

Supports serial industrial protocols

4

Provides isolated Ethernet communications

SYSTEM COMPONENTS

24 VDC controller supply

documented MicroLogix 1400 field wiring

serial and Ethernet networks

RSLogix 500 project and approved firmware

TECHNICAL NOTE

Verify 24 VDC polarity, fast-I/O assignments, relay commons, serial protocol and Ethernet parameters; do not substitute the visually similar BWA or BXBA catalog numbers.

TECHNICAL DATA

PARAMETER	VALUE
Complete catalog number	1766-L32BXB
Power supply	24 V DC
Digital inputs	12 fast plus 8 standard 24 V DC inputs
Relay outputs	6
Fast DC outputs	3 fast 24 V DC outputs
Standard DC outputs	3 standard 24 V DC outputs
Total I/O	20 inputs and 12 outputs

PARAMETER	VALUE
User memory	20 KB
Ethernet interface	Isolated Ethernet port
Serial protocols	DF1, DH-485, Modbus RTU, ASCII and DNP3
Ethernet protocols	EtherNet/IP messaging, Modbus TCP/IP and DNP3 over IP
Embedded analog	None
Lifecycle status	Active Mature
Installation publication	1766-IN001

ENGINEERING NOTE

Verify 24 VDC polarity, fast-I/O assignments, relay commons, serial protocol and Ethernet parameters; do not substitute the visually similar BWA or BXBA catalog numbers.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
GE IC670ALG620	Related industrial automation product	View GE IC670ALG620 page
GE IC670ALG330	Related industrial automation product	View GE IC670ALG330 page
GE IC670ALG320	Related industrial automation product	View GE IC670ALG320 page
GE IC670ALG310	Related industrial automation product	View GE IC670ALG310 page
GE IC670ALG240	Related industrial automation product	View GE IC670ALG240 page
GE IC670ALG230	Related industrial automation product	View GE IC670ALG230 page
GE IC670MFP100	Related industrial automation product	View GE IC670MFP100 page
GE IC670FBI001	Related industrial automation product	View GE IC670FBI001 page

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Standalone machine control

Provides twenty embedded digital inputs

Mixed relay and high-speed output control

Provides six relay and six DC transistor outputs

EtherNet/IP supervisory messaging

Supports serial industrial protocols

MicroLogix 1400 controller replacement

Provides isolated Ethernet communications

PRODUCT PRECAUTIONS

- 1 Verify the complete 1766-L32BXB marking and its assigned Allen-Bradley MicroLogix 1400 control system position before work.
- 2 Place the connected standalone machine control process in the approved maintenance state.
- 3 Isolate applicable power and embedded digital i/o, serial communications and ethernet controller data field energy before disconnection.
- 4 Record every connector, conductor, address, firmware and software identity before removal.
- 5 Use ESD controls and protect keyed interfaces, exposed contacts and electronic assemblies.
- 6 Confirm the installed 24 VDC controller supply and documented MicroLogix 1400 field wiring against the approved project.
- 7 Restore power in a controlled sequence and review device, network and host diagnostics.
- 8 Prove the intended mixed relay and high-speed output control function and retain the final test result.

ENGINEER FAQ

Q1 What embedded I/O mix identifies the 1766-L32BXB controller?

It provides 20 digital inputs and 12 outputs: 12 fast plus 8 standard 24 VDC inputs, 6 relay outputs, 3 fast DC outputs and 3 standard DC outputs.

Q3 For 1766-L32BXB, why must fast and standard input assignments be recorded separately?

Twelve inputs are documented as fast and eight as standard 24 VDC inputs; transferring conductors without preserving those assignments can change machine timing behavior.

Q5 For 1766-L32BXB, which serial protocols can the MicroLogix 1400 project use?

The documented serial options include DF1, DH-485, Modbus RTU, ASCII and DNP3; restore the exact channel mode, baud rate, node and framing used by the project.

Q7 For 1766-L32BXB, how should the 20 KB user-memory project be restored?

Use the approved RSLogix 500 project and compatible firmware, verify that the application fits the documented 20 KB memory and confirm the controller enters the intended operating mode.

Q2 For 1766-L32BXB, which supply is required by the BXB catalog variant?

The exact 1766-L32BXB uses a 24 VDC controller supply. Verify polarity and the documented field commons before applying power.

Q4 For 1766-L32BXB, how should relay and transistor output loads be separated during rewiring?

Keep the six relay circuits distinct from the three fast and three standard 24 VDC transistor outputs, including their commons, load voltages and protection.

Q6 For 1766-L32BXB, what must be checked on the isolated Ethernet port?

Confirm the recorded IP settings and the intended EtherNet/IP messaging, Modbus TCP/IP or DNP3-over-IP service before reconnecting the production network.

Q8 Why are 1766-L32BWA and 1766-L32BXBA not automatic substitutes?

They are different catalog identities. Match the full BXB power, embedded-I/O and communications configuration before approving any replacement.

SOURCE Rockwell Automation 1766-L32BXB product record | 1766-L32BXB; 1766-IN001

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