

INDUSTRIAL AUTOMATION PRODUCT

1766-L32BXB

MicroLogix 1400 32-point controller

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

IDENTITY	VERIFIED VALUE
Manufacturer	Allen-Bradley
System family	Allen-Bradley MicroLogix 1400 control system
Part number	1766-L32BXB

APTER POWER SALES TEAM

WHATSAPP / PHONE +86 180 3023 5313
EMAIL sales13@apterpower.com
WEBSITE www.apterpower.com



2

Technical Specifications

Technical values below are limited to the named Allen-Bradley product record.

PARAMETER	TECHNICAL 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
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

3

System Role and Architecture

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

FUNCTION 1

Provides twenty embedded digital inputs

FUNCTION 2

Provides six relay and six DC transistor outputs

FUNCTION 3

Supports serial industrial protocols

FUNCTION 4

Provides isolated Ethernet communications

Matched system components

- 24 VDC controller supply
- documented MicroLogix 1400 field wiring
- serial and Ethernet networks
- RSLogix 500 project and approved firmware

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	24 VDC controller supply
Companion hardware	documented MicroLogix 1400 field wiring
Field connection	serial and Ethernet networks
Primary system function	Provides twenty embedded digital inputs
Controlled acceptance duty	Standalone machine control

4

Applications and Engineering Context

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

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.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	1766-L32BxB / 1766-L32BxB recorded
Physical interface	24 VDC controller supply
Companion check	documented MicroLogix 1400 field wiring
Functional proof	Provides twenty embedded digital inputs
Application test	Standalone machine control

5

Engineering 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.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
Bently Nevada 330909 00 25 10 02 00	Related industrial automation product	View Bently Nevada 330909 00 25 10 02 00 page
Siemens C98043 A7106 L1	Related industrial automation product	View Siemens C98043 A7106 L1 page
Bently Nevada 330908 21 35 10 02 00	Related industrial automation product	View Bently Nevada 330908 21 35 10 02 00 page
Bently Nevada 330905 0 25 05 02 IN	Related industrial automation product	View Bently Nevada 330905 0 25 05 02 IN page
Bently Nevada 330903 00 07 10 01 CN	Related industrial automation product	View Bently Nevada 330903 00 07 10 01 CN page
Prosoft MVI56 MCM	Related industrial automation product	View Prosoft MVI56 MCM page
Bently Nevada 330903 00 07 10 01 00	Related industrial automation product	View Bently Nevada 330903 00 07 10 01 00 page
ABB PM590 ETH 1SAP150000R0271	Related industrial automation product	View ABB PM590 ETH 1SAP150000R0271 page

MANUFACTURER SOURCE RECORD

Rockwell Automation 1766-L32BXB product record

1766-L32BXB; 1766-IN001

APTER POWER SALES TEAM

WHATSAPP / PHONE +86 180 3023 5313
EMAIL sales13@apterpower.com
WEBSITE www.apterpower.com

