

Allen-Bradley · Allen-Bradley ControlLogix

1756-DNB

ControlLogix DeviceNet Bridge / Scanner Module

Exact-model official evidence verified

Technical specifications

DeviceNet channels	1
Maximum nodes	64
Communication rates	125 / 250 / 500 kbit/s
Maximum trunk length at 125 kbit/s	500 m
Maximum trunk length at 250 kbit/s	250 m
Maximum trunk length at 500 kbit/s	100 m
DeviceNet connector	Open-style 5- or 10-pin linear plug
DeviceNet supply range	11 to 25 VDC, Class 2 / SELV
DeviceNet current draw	60 mA at 24 VDC
Backplane current	400 mA at 5.1 VDC; 0 mA at 24 VDC
Power dissipation	3.5 W
Thermal dissipation	11.9 BTU/h
Isolation	50 V continuous, DeviceNet-to-backplane
Operating temperature	0 to 60°C
Storage temperature	-40 to 85°C
Relative humidity	5 to 95%, non-condensing
Chassis location	Any ControlLogix chassis slot

Documented role

Allen-Bradley 1756-DNB is an Allen-Bradley ControlLogix DeviceNet bridge and scanner module that manages as many as 64 DeviceNet nodes at 125, 250 or 500 kbit/s.

It exchanges cyclic I/O and explicit messages between a ControlLogix controller and DeviceNet devices while maintaining the configured scanlist, node map and network timing.

Applications

- Integrating legacy DeviceNet I/O and intelligent devices with a ControlLogix controller
- Replacing a DeviceNet scanner while retaining the verified scanlist and node configuration
- Diagnosing DeviceNet power, media, termination and node-communication faults

Selection note

Allen-Bradley 1756-DNB is a DeviceNet bridge/scanner, not a general Ethernet module. Preserve the exact scanlist and physical network design; never infer node mapping from terminal wiring alone.