

1786-RPFM

Allen-Bradley (Rockwell Automation) · ControlNet / Bulletin 1786

The Allen-Bradley 1786-RPFM is a ControlNet medium-distance fiber optic repeater that provides redundant fiber links for ControlNet networks. It provides two fiber-optic channels (CH1/CH2) for a medium-distance fiber link up to 3000 m between two ControlNet products, with noise immunity and ground isolation. Ring/redundant topology requires the long-distance ring repeaters 1786-RPFRL / 1786-RPFRXL, not this module. The module mounts on DIN rail and operates on 24V DC.

Manufacturer: Allen-Bradley (Rockwell Automation)

Brand: Allen-Bradley

Part Number/Catalog No.: 1786-RPFM

Base Catalog: 1786-RPFM

Series Suffix: None

Product Type: Fiber Optic Repeater (Medium-distance)

Product Family: ControlNet / Bulletin 1786

Model-Specific Specifications:

Dual fiber channels

5 Mbps

62.5/125 um multimode, ST connectors, 1300 nm

up to 3000 m

24V DC

400mA @ 5V, 2W max

up to 4 per 1786-RPA/B adapter

Series / Family Common Specifications:

Deterministic, scheduled ControlNet network operating at 5 Mbps.

Coaxial trunk media: quad-shielded RG-6 coax (75 ohm) with BNC connectors.

Supports redundant media (Trunk A/Trunk B) and fiber options for high availability.

Repeaters/adapters (e.g. 1786-RPFM) regenerate and extend the network over coax and fiber.

Max 99 nodes per ControlNet network. Ambient operating temperature up to 60 C (storage -40 to 85 C).

Lifecycle Status: Discontinued

Discontinuation Date: 2025-12-30

Recommended Replacement: Engineering Replacement

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