ControlNet Physical Media

Repeaters

Repeater modules can be used to extend the length of the network, create a point-to-point, star, or ring topology, or perform network media conversion from copper (coaxial) media to fiber media, and vice versa.

Cat. No.	Product	Used With	Description
ControlNet Repeater Modules			
See the following for more information: *ControlNet Fiber Media Planning & Installation Guide, publication CNET-IN001.* *ControlNet Ex Media Plannng & Installation Guide, publication CNET-IN003.*			
1786-RPCD	Coaxial Repeater • 2 coaxial segments per module • point-to-point and star topologies	RG6 copper coax	Extend the physical length of the ControlNet network up to 1 km
1786-RPFS	Short-distance Fiber Repeater • 2 fiber segments per module • point-to-point and star topologies	V-pin (use pre-made 1786-FSxx 10-300 m cables)	Optically isolate and extend the physical length of the ControlNet network up to 300 m
1786-RPFM	Medium-distance Fiber Repeater • 2 fiber segments per module • point-to-point and star topologies	ST 62.5/125 um multimode fiber	Optically isolate and extend the physical length of the ControlNet network up to 3 km
1786-RPFRL/B	Long-distance Fiber Ring Repeater • 2 fiber segments per module • point-to-point, star, and ring topologies • Fault Relay for runtime diagnostics	ST 62.5/125 um multimode fiber	Optically isolate and provide fiber ring media redundancy or Extend the physical length of the ControlNet network up to 10 km
1786-RPFRXL/B	Extra-long-distance Fiber Ring Repeater • 2 fiber segments per module • point-to-point, star, and ring topologies • Fault Relay for runtime diagnostics	ST 62.5/125 um multimode fiber or ST 9/125 um single mode fiber	Optically isolate and provide fiber ring media redundancy or Extend the physical length of the ControlNet network up to 20 km
1797-RPFM	Intrinsically Safe Medium-distance Repeater • 2 fiber segments per module • point-to-point and star topologies • connect the 1797-RPFM repeater module (in an intrinsically safe area) to the 1786-RPFM repeater module (in a non-intrinsically safe area) using fiber	ST 62.5/125 um multimode fiber	Optically isolate for intrinsically safe areas or Extend the physical length of the ControlNet network up to 3 km
ControlNet Repeater Adapters			
See the following for more information: *ControlNet Fiber Media Planning & Installation Guide, publication CNET-IN001.* *ControlNet Ex Media Plannng & Installation Guide, publication CNET-IN003.*			
1786-RPA/B	Modular Repeater Adapter • supplies power for up to 4 repeater modules (1786-RPCD, -RPFS, and -RPFM) • supplies power for up to 2 repeater modules (1786-RPFRL, -RPFXL) • one coax BNC connection	RG6 copper coax	Use with these repeater modules: 1786-RPCD 1786-RPFS 1786-RPFM 1786-RPFRL 1786-RPFRXL
1797-RPA	Intrinsically Safe Modular Repeater Adapter • supplies power for up to 2 repeater modules (1797-RPFM) • one coax BNC connection	RG6 copper coax	Use with these repeater modules: 1797-RPFM