

ToughNet TN-5518 Series managed Ethernet switch

This is a *Control Engineering* 2010 Engineers' Choice Award winner in the category of Network Integration - Ethernet Hardware.

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Moxa Inc. ToughNet TN-5518 managed Ethernet switch is designed for rolling stock and rail networks. Many new applications in the railway industry, such as video surveillance, emergency intercom, and Web-like entertainment require large amounts of bandwidth. The TN-5518 provides 2 Gigabit ports to allow video, audio, and data transmission over a single network. The switch also contains numerous features that enhance network reliability. It supports Turbo Ring, which has a super fast fault recovery of less than 20 ms at a full load of 250 Ethernet switches to minimize downtime caused by network failure. It has rotary switches for configuring the IP address built right into the switch's housing, allowing for easy recovery of network communication. To prevent the type of catastrophic failure that can occur when networks are deployed in a linear topology, Moxa gave the TN-5518 two optional Gigabit Ethernet ports with bypass relay function. If one of the Ethernet switches fails due to power loss, its ports are bypassed with the relay circuit, and the transmission lines will interconnect automatically to assure continuous system operation.

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