

# TES-3080-M12(-BP2) SERIES



**EN50155 8-port managed Ethernet switch with 8x10/100Base-T(X), M12 connector and 2xbypass included**

## Features

- Leading EN50155-compliant Ethernet switch for rolling stock application
- Supports O-Ring (recovery time < 10ms over 250 units of connection) and MSTP/RSTP/STP for Ethernet Redundancy
- O-Chain allow multiple redundant network rings
- Supports standard IEC 62439-2 MRP<sup>™</sup> (Media Redundancy Protocol) function
- Supports Modbus TCP protocol
- Supports PTP Client (Precision Time Protocol) clock synchronization
- IGMP v2/v3 (IGMP snooping support) for filtering multicast traffic
- Supports SNMP v1/v2c/v3 & RMON & 802.1Q VLAN Network Management
- Port Trunking for easy of bandwidth management
- SNMP v1/v2c/v3 support for secured network management
- RMON for traffic monitoring
- Supports LLDP Protocol
- Port lock to prevent access from unauthorized MAC address
- Event notification through Syslog, Email, SNMP trap, and Relay Output
- Windows utility (Open-Vision) supports centralized management and configurable by Web-based, Telnet, and Console (CLI)
- M12 connectors to guarantee reliable operation against environmental disturbances
- Built-in 2 sets of bypass ports (-BP2 model only)
- Wall mounting enabled



## Introduction

ORing's Transporter<sup>™</sup> series managed Ethernet switches are designed for industrial applications such as rolling stock, vehicle, and railway. The TES-3080-M12(-BP2) series, which is compliant with the EN50155 standard, is a managed Redundant Ring Ethernet switch with 8x10/100Base-T(X) ports. With complete support of Ethernet Redundancy protocol, O-Ring (recovery time < 10ms over 250 units of connection), O-Chain, MRP<sup>™</sup> and MSTP/RSTP/STP (IEEE 802.1s/w/d) can protect your mission-critical applications from network interruptions or temporary malfunctions with its fast recovery technology. O-Chain is the revolutionary network redundancy technology that provides the add-on network redundancy topology for any backbone network. O-Chain allows multiple redundant network rings of different redundancy protocols to join and function together as a larger and more robust compound network topology. O-Chain providing ease-of-use while maximizing fault-recovery swiftness, flexibility, compatibility, and cost-effectiveness in one set of network redundancy topology. TES-3080-M12(-BP2) series EN50155 Ethernet switch uses M12 connectors to ensure tight, robust connections, and guarantee reliable operation against environmental disturbances, such as vibration and shock. TES-3080-M12-BP2 includes 2 sets of bypass ports that protect the network from failures and Network maintenance by ensuring network integrity during power loss. TES-3080-M12(-BP2) series can be managed centralized and convenient by a powerful windows utility — Open-Vision. In addition, the wide operating temperature range from -40°C to 75°C can satisfy most of operating environments. Therefore, the switch is one of the most reliable choices for rolling stock and highly-managed Ethernet application.

**\*NOTE: This function is available by request only**

# M12 Geogr Bp2 Eng Tzo Xx

**M Woodhall**



**M12 Geogr Bp2 Eng Tzo Xx:**

## **M12 Geogr Bp2 Eng Tzo Xx Book Review: Unveiling the Magic of Language**

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**M12 Geogr Bp2 Eng Tzo Xx**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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