Ethernet for Critical Systems

EN50155 Industrial Ethernet Layer 3 Core Switch

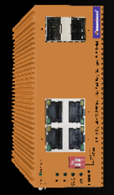
- Supports 16 - 20 10/100Mbps Ethernet Ports (M12 connectors)
- Ring Redundancy Protocol, Ring Recovery Time less than 15ms
- Supports Layer 3 Routing Protocols and other Features
- Dual Power Supply Redundancy
- Fanless Cooling Design, Support-40°C to +75°C Working Temperature
- IP40/IP67 Protection
- By-pass Ports Are Available
- Alarm Output Supported

L3 Ruggedized Switch with 1588 Supported

- Up to 16*1000Mbps Copper Ports, 8*1000Mbps SFP Ports and 4*1000Mbps Combo Ports
- Support 1588v2 Precision Time Protocol (PTP)
- Supports Layer 3 Routing Protocols and Other Features
- RingOpen, RingOn, Redundancy Power Input 120-370VDC or 85-264VAC RSTP/STP
- Fanless Cooling Design, Support -40°C to +75°C Working Temperature
- IP40 Protection

Pioneering in Power over Ethernet (PoE/PoE+/PoE++)

4*1000Mbps PoE/PoE+ and 2*1000Mbps SFP Fiber Ports



- Compact Industrial PoE+ switch with 4*1000Mbps copper and 2*1000Mbps SFP fiber ports. Each port supports 802.3af/at standard up to 30 watts
- Supports IEEE802.3, IEEE802.3U, IEEE802.3ab, IEEE802.3Z, IEEE802.3x Standards
- Support one key for ring redundancy and one key for broadcast storm protection
- Support L3 static routing to better protect your network information security
- Support PD-Alive (Also called PoE Watchdog and AI PoE in the market), which could support the power restart to PD device

8*1000Mbps PoE/PoE+ and 4*1000Mbps SFP Fiber Ports

- Compact Industrial PoE+ PoE++ switch with 8*1000Mbps copper and 4*1000Mbps SFP fiber ports. Each port supports 802.3af/at/bt standard up to 90 watts
- Supports IEEE802.3, IEEE802.3U, IEEE802.3ab, IEEE802.3Z, IEEE802.3x standards
- Supports LACP functions for added bandwidth and securiy
- Support one key for ring redundancy and one key for broadcast storm protection
- Support L3 static routing to better protect your network information security
- Support PD-Alive (Also called PoE Watchdog and AI PoE in the market), which could support the power restart to PD device

8*1000Mbps PoE/PoE+/PoE++ and 12*1000Mbps SFP Fiber Ports

- Compact Industrial PoE+/PoE++ switch with 8*1000Mbps copper and 12*1000Mbps SFP fiber ports. Each port supports 802.3af/at/bt standard up to 90 watts
- Supports IEEE802.3, IEEE802.3U, IEEE802.3ab, IEEE802.3Z, IEEE802.3x standards
- Supports LACP functions for added bandwidth and securiy
- Support one key for ring redundancy and one key for broadcast storm protection
- Support L3 static routing to better protect your network information security
- Support PD-Alive (Also called PoE Watchdog and AI PoE in the market), which could support the power restart to PD device

Henrich Electronics Corporation
Address: 7652 Plaza Court
Willowbrook, IL 60527
USA
Tel: (909)939-2468
Email: customer_service@henrich-inc.com
Skype: henrichinc

HENRICH®

Industrial Ethernet Solutions

SIMPLE
RELIABLE
SAFE

HENRICH®

Company Profile

Founded in Walnut, CA, USA, Henrich Electronics Corporation has been helping customers across the globe for over 20 years to contribute to their successes in various industries. Disciplined with Simple, Reliable and Safe professional values, Henrich team has delivered the most critical Ethernet products such as IEC61375 certified Ethernet switches for train signal systems(CBTC), train control systems (TCMS) and many other applications that continuous operations are a must. Always keeping up with the technological trend changes, we ensure that you are working with a trusted partner and one-stop shop for all your needs in industrial Ethernet products and services.

Core Capabilities

Software
- Ethernet Full Layer 3 Code Ownership and Customization
- Linux OS Customization
- Driver Development
- Protocol Development
- Windows Based Network Management System Supporting Large Scale Networks

OEM/ODM
- Successfully Designed/Customized Products for OEM Customers Across the Globe
- Highly Accountable Supplier to Global OEM/ODM Customers for 15 years. Reference Is Available Upon Request
- Top Quality, 100% on-time Delivery and Competitive Prices

Hardware
- Multi-core CPU Development Onto Board Level Products
- Up to 10G Industrial Ethernet Hardware Development
- Hot Swappable Power Supplies
- Hot Swappable Copper or Fiber Modular Designs
- Multi-industry Specific Designs Such as IEC61375, IEC61850-3, EN50155, UL C1D2, UL864, ect

Manufacturing
- ISO9001:2015 Certified Facility
- 100% in-house Function Test
- 5-Year Warranty
- Full Service for After-Sales Operations

Service
- 24 X 7 Technical Support to Any Customer Across the Globe
- Global Distribution/Service Channel is Being Rapidly Developed
- Pre-stage Design Consulting for Your System Is Available
- One of the Best OEM/ODM Services in the Industry
- Reference Is Available Upon Request

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Unmanaged Industrial Ethernet Switches

100/1000Mbps

Model Options: Temp: -30°C - +70°C, -40°C - +75°C / Ports: 5, 8, 4+2 (Fiber), 8+2G(Fiber) / Fiber Options: (Single/Multi Mode, SC, ST and SFP) / Power Input: 12-52VDC

All 1000Mbps

Model Options: Temp: -30°C - +70°C, -40°C - +75°C / Ports: 5G, 8G, 4G+ 2G(Fiber), 8G+2G(Fiber) / Fiber Options: (Single/Multi Mode, SC, ST and SFP) / Power Input: 12-52VDC

PoE/PoE+/PoE++

Model Options: 100/1000Mbps / Temp: -30°C - +70°C, -40°C - +75°C / Ports: 4E+2(Fiber), 2+4E+2 (Fiber), 8E, 8E+2G(Fiber) / Fiber Options: (Single/Multi Mode, SC, and SFP) / Power Input: 12-48 VDC

L2 / L3 Managed Industrial Ethernet Switch - DIN-rail

Model Options: PoE/PoE+/PoE++ / Speed: 100/1000Mbps / Temp: -30°C - +70°C, -40°C - +75°C / Ports: 5 - 28 All Copper or All Fiber / Fiber Options: (Single/Multi Mode, SC, ST and SFP) / Power Input: 12-52VDC

L2 / L3 Managed Industrial Ethernet Switch - Rack Mount

Model Options: PoE/PoE+/PoE++ / Speed:100/1000Mbps / Temp: -30°C - +70°C, -40°C - +75°C / Ports: 8 - 28 All Copper or All Fiber / Fiber Options: (Single/Multi Mode,SC, ST and SFP) / Power Input: 12-52VDC

Industrial Media Converter

Model Options: Speed 100/1000Mbps / Temp: -30°C - +70°C, -40°C - +75°C / Ports: 2+1(Fiber) / Fiber Options: (Single/Multi Mode, SC, ST and SFP) / Power Input: 12-48VDC

EN50155 Rail Switch

4-20 M12 copper ports, 100Mbps/1000Mbps, EN50155 compliant, layer 2 and layer 3 management functions, network recovery time is less than 15ms, by-pass available, PoE/PoE+ available, IP67 ruggedized alunimun enclosure, power supply input 24-110 VDC

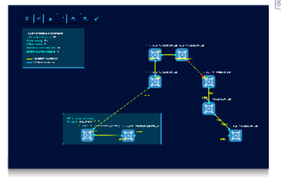
IEC61850-3 Industrial Utilities Ethernet Switch

16-28 copper/fiber ports, 100Mbps/1000Mbps, mixed models with multimode/single mode SC/ST/FC/SFP fiber options, IEC61850-3 compllant, full layer 2 and layer 3 management functions, operating temperature -40°C to +75°C, industrial regulatory approvals, power supply input 120-370VDC or 85-264VAC

SFP Modules

The transceiver modules from Henrich are small and rugged form factors. Support standard Duplex Connectors with 100Mbps or 1000Mbps connections. Single mode or muitiple mode modules can support data recovery in a ring network when an interruption occurs. Working temperature is -40°C to +75°C with IP40 protection

Network Management Software



Henrich's network management Software SpiderNet™ is a comprehensive network device management application software. It manages every detail of the switch on power, port and data, etc. It can also control each network device to upgrade new firmware, grouping network device and trouble shoot problems. Customization is available upon request.

Henrich product Roadmap

- **2003-2004** Unmanaged Ethernet
- **2005-2007** Layer 2 Ethernet
- **2008-2010** Layer 3 Core Switch
- **2011-2012** IEC61850 Core Switch
- **2013-2015** Rail Switch
- **2016-2019** IEC61375 Switch
- **2020-Present** Industrial Internet Platform

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