

## **TR-IES-3910**



## **Industrial Grade Gigabit Ethernet Switch**

TR-IES-3910 series is 10-port industrial Ethernet switches, which supports auto negotiation, Offers 8x 10/100/1000M-TX ports, 2x10G/1G-SFP+ Ports. It's plug and play, designed in wide operating temperature from -40°C to 75°C, with performance of dust/salt fog proof, make it completely suitable for harsh environments.

## **Technical Specification**

	TD IFC 2040	
	TR-IES-3910	
Ports	8x10/100/1000M TX Ports, 2x10G/1G-SFP+ Ports, Micro USB connector, RS232 TX/RX	
Backplane	56 Gbps	
Forwarding	Full wire-speed filtering and forwarding , Packet forwarding rate: 41.66 Mpps	
Packet Buffers	32Mbit	
Switching Delay	<5μS	
Switching	Store forwarding	
MAC table	32K	
Flow control	IEEE802.3x flow control, back pressure	
Mirror	Port mirroring, port speed limit	
Storm control	Broadcast and multicast storm control	
Multicast	IGMP v1/v2/v3 Snooping, MLD v1/v2Snooping	
Routing	Static, RIP,OSPF,BGP	
QoS	IEEE802.1p 8 active priorities queues for per port, IEEE802.1p based CoS, IP	
	Precedence based CoS, IP DSCP based CoS	
Redundancy	VRRP	
Traffic	QCL(QoS Control List): MAC Access control list (Source/Destination MAC, Ether type,	
Classification	Priority ID/ VLAN ID)	
Bandwidth control for Ingress	Rate in steps : 100 kbps	
	Range: 100 kbps to 1Gbps	
	Rate Unit : bit	



Bandwidth control for Egress Rate of Per quantity  Aggregation  IPv6  IPv6  IPv6  IPv6  IPv6  IPv6  IPv6  IEEE8 .1ad/s  Spanning Tree  VLAN  VLAN  IEEE8 in-Q/s  VLAN table  Management  Network security  DNS  DNS  DNS  DHCP  Size  75×15  Shell  Meta  Weight  1.0Kg  Installation  EMI  FCC P  EMS  Mechanical  Power Input  Power Redundancy  Power Connection  Alarm Connection  Rated Power  Indicator  Power  Indicator	
for Egress Rate 0 Per qu Aggregation  LACP/ IPv6 1 IEE88 .1ad/8 Spanning Tree STP/R VLAN IEE88 in-Q/0 VLAN table AK Management Web, Secure Channel Secure Port-R auther guard DNS DNS DNS DNS DNS DNS DNS DNS DHCP Size 75×15 Shell Metal Weight 1.0Kg Installation DIN-R EMI FCC P IEC61 A(EFT 8,IEC6 Mechanical Vibrat Power Input 48VD Power Redundancy Power Connection Alarm Connection Alarm Connection Rever Alarm Rated Power  Size Power Indicator Power Indicator	in steps: 100 kbps
Aggregation  IPv6  IPv6  IPv6 IPv6 IPv6 IPv6 IPv6 IPv6 IPv6 IPv6	e: 100 kbps to 1Gbps
Aggregation  IPv6  IPv6  IPv6 I  DHCP IPv6 I  MLD S  IEEE8 .1ad/S  Spanning Tree  VLAN  VLAN  VLAN table  Management  Network security  Network security  DNS  DHCP  Size  T5×15  Shell  Weight  Installation  EMI  FCC P  EMS  Mechanical  Power Input  Power Redundancy  Power Connection  Alarm Connection  Rever Alarm  Rated Power  IPv6 I  IPv6 I  DHCP  STP/R  IEEE8 .1ad/S  IEEE8 Ind/S	Unit : bit
IPv6  IREE8 .1ad/8  Spanning Tree  STP/R  VLAN  IEEE8 in-Q/6  VLAN table  Management  Secure Channel  Secure Channel  Port-R auther guard  DNS  DNS  DNS  DHCP  Size  75×15  Shell  Metal  Weight  1.0Kg  Installation  DIN-R  EMI  FCC P  IEC61  4(EFT 8,IEC6  Mechanical  Power Input  Power Redundancy  Power Connection  Alarm Connection  Rated Power  Indicator  Power  Indicator	ueue shaper
IPv6 IPv6 1 IEEE8 .1ad/3 Spanning Tree STP/R VLAN IEEE8 in-Q/0 VLAN table 4K Management Web, Secure Channel Secure IPort-leauther guard DNS DNS DNS DNS DNS DNS DNS DNS DNS IEEE Shell Meta Weight 1.0Kg Installation DIN-R EMI FCC P EMS IEC61 EMS IEC61 IEC61 Power Input 48VD Power Redundancy Yes (a) Power Connection 7core Alarm Connection 7core Rever Alarm Rated Power Size Some Size Some Some Size Some Size Some Size Some Size Shell Shel	/Link Aggregation Static
Protocol Standard Spanning Tree  VLAN  VLAN  VLAN table  Management  Network security  DNS  DHCP  Size  Shell  Weight  Installation  EMI  EMS  Mechanical  Power Input  Power Redundancy  Power Connection  Alarm Connection  Rated Power  IEEE8  in-Q/d  Alarm  IEEE8  in-Q/d  AK  Meba  Meba  Meba  IEEE8  in-Q/d  AK  Meba  Meba  IEEE8  in-Q/d  AK  Port-le  authe guard  DNS  DNS o  DHCP  DHCP  Size  75×15  Shell  Meta  Weight  1.0Kg  IEC61  4(EFT  8,IEC6  A(EFT  8,IEC6  Alarm  Correl  Alarm  Rever  Alarm  Rated Power  S25W  Indicator	Dual Stack
Protocol Standard Spanning Tree  VLAN  VLAN  VLAN table  Management  Network security  DNS  DHCP  Size  T5×15  Shell  Weight  Installation  EMI  FCC P  EMS  Mechanical  Power Input  Power Redundancy  Power Connection  Alarm Connection  Rever Alarm  Rated Power  IEEE8  .1ad/3  IEEE8 .1ad/3  IEEC. IEEC	Pv6, ACLv6 ,ICMPv6
Protocol Standard Spanning Tree VLAN VLAN VLAN table VLAN Web, Secure Channel Network security  DNS DHCP Size Shell Weight Installation EMI FCC P EMS Mechanical Power Input Power Redundancy Power Connection Alarm Connection Rever Alarm Rated Power  STP/R  STP/R  IEEE8 in-Q/0  4K Meb, Secure Port-Ic authe guard authe guard 1.0 Kg Hord 1.0 Kg Installation DIN-R IEC61 4(EFT 8,IEC61 Power Connection 7core Alarm Connection Rever Alarm Rated Power  STP/R  IEE8  IEE8  10-Q/0  IEE8  IN-Q/0  IEE8  IN-Q/0  IEE8  IEE8  IIEE8 IIEE8 IIEE8 IIEE8 IIEE8 III-Q/0  III III III III III III III III III	Telnet, IPv6 SSH
Spanning Tree  VLAN  VLAN  VLAN table  Management  Secure Channel  Network security  DNS  DHCP  Size  Shell  Weight  Installation  EMI  FCC P  EMS  Mechanical  Power Input  Power Redundancy  Power Connection  Alarm Connection  Rever Alarm  Rated Power  STP/R  IEEE8  in-Q/d  4K  Meb, Secure  Port-k authe guard  DNS  DHCP  DHCP  Size  75×15  Shell  Meta  Vibrat  48VD  Power Connection  7core Alarm  Rever Alarm  Rated Power  Indicator	Snooping
Spanning Tree  VLAN  VLAN  VLAN table  Management  Secure Channel  Network security  DNS  DHCP  Size  75×15  Shell  Weight  Installation  EMI  FCC P  IEC61  EMS  Mechanical  Power Input  Power Redundancy  Power Connection  Alarm Connection  Rever Alarm  Rated Power  IEE8  in-Q/R  4K  Meb,  Secure  Port-R  authe guard  Port-R  Alern  FCC P  IEC61  4(EFT  8,IEC6  Mechanical  Power Redundancy  Power Connection  Rever Alarm  Rated Power  Indicator  Power  Connection  Connection  Power  Connection  Connection  Power  Connection  Connection  Connection  Power  Connection  C	302.3i/802.3u/802.3z/802.3x/802.3ad/802.1p/802.1q/802.1d/802.1w/802.1s/802
VLAN  VLAN table  Management  Secure Channel  Network security  DNS  DHCP  Size  75×15  Shell  Weight  Installation  EMI  FCC P  IEC61  EMS  Mechanical  Power Input  Power Redundancy  Power Connection  Alarm Connection  Rever Alarm  Rated Power  IEE8  in-Q/0  AK  Meb,  IPC P  Port-I  authe guard  Port-I  Authe guard  IPCT  Authe Security  IEC61  IEC61  IEC61  Vibrat  Power Redundancy  Power Connection  Rever Alarm  Rated Power  Indicator	/802.3az/802.1x/802.1ab
VLAN table 4K  Management Web, Secure Channel Secure  Network security author guard  DNS DNS DNS COMPONION OF Size 75×15  Shell Metal  Weight 1.0Kg Installation DIN-R EMI FCC P  EMS IEC61  4(EFT 8,IEC61  Mechanical Vibration Vibration Power Input 48 VD  Power Redundancy Yes (19)  Power Connection 7core Alarm Connection 7core Alarm Rever Alarm  Rated Power Security Metal  VID NS DNS COMPONION OF TOTAL Power Input Power Redundancy Yes (19)  Rever Alarm  Rated Power Security Metal Number Input Power Redundancy Yes (19)  Indicator Power Connection 7core Alarm Connection	RSTP/MSTP/ITU-T G.8032 Ethernet Ring Protection/TR-Ring/IPv4/IPv6
in-Q/d  VLAN table  Management  Secure Channel  Network security  DNS  DNS  DHCP  Size  75×15  Shell  Weight  1.0Kg  Installation  EMI  FCC P  EMS  Mechanical  Power Input  Power Redundancy  Power Connection  Alarm Connection  Rever Alarm  Rated Power  Indicator  Veb,  Alarm  Secure  Port-Indicator  Indicator  Port-Indicator  Indicator  Port-Indicator  Port-Indicator  Indicator  Indicator  Port-Indicator  Port	302.1Q VLAN/MAC based VLAN/Protocol based VLAN /IP subnet based VLAN/Q-
ManagementWeb,Secure ChannelSecurePort-lead quardPort-lead auther guardDNSDNS ofDHCPDHCPSize75×15ShellMetalWeight1.0kgInstallationDIN-REMIFCC PEMS4(EFT 8,IEC6MechanicalVibratePower Input48VDPower RedundancyYes (10)Power Connection7coreAlarm Connection7corePower ProtectionRever AlarmRated Power≤25WIndicatorPowe Connection	GVRP/MVR, IEEE802.3ac VLAN tagging
Secure ChannelSecure Port-least author guardDNSDNS of DNS of DHCPSize75×15ShellMetaWeight1.0kgInstallationDIN-REMIFCC PEMS4(EFT 8,IECGMechanicalVibratePower Input48VDPower RedundancyYes (content of the power protection)Alarm Connection7core power ProtectionRated Power≤25WIndicatorPower Connection	
Network security  DNS DNS DHCP Size 75×15 Shell Metal Weight 1.0Kg Installation DIN-R EMI FCC P  EMS AlEC61 4(EFT 8,IEC61 48VD Power Input Power Redundancy Power Connection Alarm Connection Power Protection Rever Alarm Rated Power  Indicator Power Roundance Power Connection Rever Alarm Roundance Power Connection Rever Alarm Connection Power Connection Power Connection Power Connection Power Connection Rever Alarm Rated Power	, CLI-Console, Telnet, SNMPv1/v2/v3, RMON, System syslog, NTP
Network securityauthor guardDNSDNS ofDHCPDHCPSize75×15ShellMetaWeight1.0kgInstallationDIN-REMIFCC PEMS4(EFT 8,IECGMechanicalVibratePower Input48VDPower RedundancyYes (GPower Connection7coreAlarm Connection7corePower ProtectionRever AlarmRated Power≤25WIndicatorPowe Connection	re channel by SSL/SSH, FTP, DAI, LAG, GUI, LLDP, LLDP-MED
DNS DNS DNS COME  DHCP DHCP  Size 75×15  Shell Meta  Weight 1.0Kg  Installation DIN-R  EMI FCC P  EMS IEC61  A(EFT 8,IEC6  Mechanical Vibrat  Power Input 48VD  Power Redundancy Yes (COME  Power Connection 7core  Alarm Connection 7core  Alarm Rated Power S25W  Indicator Power Connection Power Connection Rever Alarm  Rated Power S25W  Indicator Connection Power Connection Power Connection Power Connection Rever Alarm	based IEEE802.1X/Single and multiple IEEE802.1X/MAC-based
DNS DHCP DHCP Size 75×15 Shell Meta Weight 1.0Kg Installation DIN-R EMI FCC P  EMS IEC61 4(EFT 8,IEC6 Mechanical Power Input Power Redundancy Power Connection Alarm Connection Power Protection Rever Alarm Rated Power  Indicator DHCP Indicator Reta IEC61 4(EFT 8,IEC6 Rever Alarm Rever Alarm Power Connection Power Connection Rever Alarm Connection	entication/VLAN Assignment/ IP source
DHCPDHCPSize75×15ShellMetaWeight1.0 kgInstallationDIN-REMIFCC PEMS4(EFT 8,IECGMechanicalVibratPower Input48 VDPower RedundancyYes (GPower Connection7coreAlarm Connection7corePower ProtectionRever AlarmRated Power≤25 WIndicatorPowe Connection	d/Sflow/RADIUS/TACACS+/ACL/SSHv2/HTTPS
Size75×15ShellMetaWeight1.0kgInstallationDIN-REMIFCC PEMSIEC61 4(EFT 8,IEC6MechanicalVibratPower Input48VDPower RedundancyYes (4)Power Connection7coreAlarm Connection7corePower ProtectionRever AlarmRated Power≤25WIndicatorPowe Connection	client/proxy
ShellMetaWeight1.0 kgInstallationDIN-REMIFCC PEMSIEC614(EFT 8,IEC6MechanicalVibratePower Input48 VDPower RedundancyYes (4)Power Connection7coreAlarm Connection7corePower ProtectionRever AlarmRated Power≤25 WIndicatorPowe Connection	P Server/Client/Relay/snooping
Weight1.0 kgInstallationDIN-REMIFCC PEMSIEC61EMS4(EFT 8,IEC6)MechanicalVibratePower Input48 VDPower RedundancyYes (4)Power Connection7coreAlarm Connection7corePower ProtectionRever AlarmRated Power≤25 WIndicatorPowe Connection	55×128mm
Installation DIN-R EMI FCC P  EMS IEC61  4(EFT 8,IEC6  Mechanical Vibrat  Power Input 48 VD  Power Redundancy Yes ( Power Connection 7 core  Alarm Connection 7 core  Power Protection Rever  Alarm  Rated Power ≤25 W  Indicator Power  Connection Power  Connection Rever  Alarm	al, Fan less, IP40 protection level
EMI FCC P  IEC61 4(EFT 8,IEC6  Mechanical Vibrat Power Input 48VD Power Redundancy Yes ( Power Connection 7core Alarm Connection 7core Power Protection Rever Alarm Rated Power ≤25W Indicator Power Connection	
EMS    IEC61   4(EFT   8,IEC6     Mechanical   Vibration     Power Input   48VD     Power Redundancy   Yes ( 0)     Power Connection   7core     Alarm Connection   Rever     Alarm Rated Power   ≤25W     Indicator   Power     Connection   Power     Connection   Connection     Power   Power     Connection   Power     Con	Rail/Wall mounting
EMS 4(EFT 8,IECG 8,IECG 18,IECG 18,IE	Part15 Class B, EN50155,EN50121,EN55022,EN55024
Mechanical Vibrate Power Input 48VD Power Redundancy Yes ( Power Connection 7core Alarm Connection 7core Rever Alarm Rated Power ≤25W Indicator Power Connection Power Connection Rever Connection Power Connection Power Connection Power Connection Connection Power Connection Connection Power Power Connection Pow	1000-4-2(ESD)Level3,IEC61000-4-3(RS)exceeds Level 3,IEC61000-4-
MechanicalVibratePower Input48VDPower RedundancyYes ( of the power Connection)Alarm Connection7corestPower ProtectionRever AlarmRated Power≤25WIndicatorPower Connection	T)Level3,IEC61000-4-5(Surge)Level3,IEC61000-4-6(CS)Level 2,IEC61000-4-
Power Input48 VDPower RedundancyYes ( or expense)Power Connection7 coreAlarm ConnectionRever AlarmPower ProtectionRever AlarmRated Power≤25 WIndicatorPower Connection	61000-4-11,IEC61000-4-16
Power RedundancyYes ( )Power Connection7coreAlarm Connection7corePower ProtectionRever AlarmRated Power≤25WIndicatorPowe Connection	ation:IEC60068-2-6, Impact:IEC60068-2-27, Falling:IEC60068-2-32
Power Connection7coreAlarm Connection7corePower ProtectionRever AlarmRated Power≤25WIndicatorPowe Connection	OC .
Alarm Connection7corePower ProtectionRever AlarmRated Power≤25WIndicatorPowe Connection	Optional)
Power ProtectionRever AlarmRated Power≤25WIndicatorPower Connection	es 5.08mmspacing inset into terminal
Power ProtectionRever AlarmRated Power≤25WIndicatorPower Connection	es 5.08mmspacing inset into terminal
Rated Power Some Some Some Some Some Some Some Some	rse connection protection, Over voltage protection, Over current protection,
Rated Power ≤25W Indicator Power Connection	n output
Conn	
Conn	
Opera	
	tive Humidity: $5\sim$ 95%(No condensation)



## **Order Information:**

TR-IES-3910	Industrial Ethernet switch (1 console port, 8x10/100/1000M TX Ports,2x10G/1G-SFP+
14-162-2910	Ports, Micro USB connector, RS232 TX/RX, 48VDC Power Input)

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