# EKI-9312

#### Industrial-Class 12 Port Full Gigabit Managed DIN Rail Switch



#### **Features**

- All Gigabit connections support dual-ring protection and non-blocking traffic forwarding
- X-Ring+: recovery time within 10ms for 250 node connections
- STP, RSTP, MSTP for better redundancy
- Super security mechanism includes SSL,SSH, 802.1X, MAC, IP filtering, RADIUS, TACACS+, VLAN for access protection
- Dual power input, dual image for system reliability
- Operating temperature: -40 ~ 75° C



#### Introduction

The EKI-9312 Gigabit Managed Ethernet Switches are designed for rigorous mission critical applications, such as factory automation, ITS, and process control. The 4 Gigabit Ethernet ports allow great flexibility to build up a Gigabit redundant ring and a Gigabit uplink.

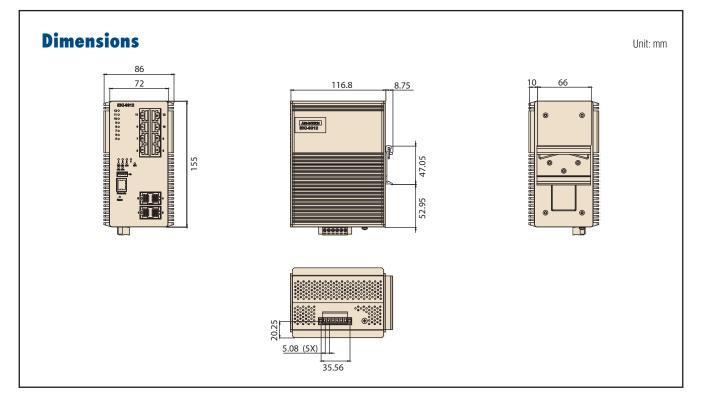
The EKI-9312 are equipped with 8 Gigabit Ethernet ports and up to 4 fiber optic ports, making them ideal for upgrading an existing network to Gigabit speed or building a new, full Gigabit network. The X-Ring+ with RSTP, STP and MSTP support, increases system reliability and the availability of your network. The EKI-9312 are designed especially for communication demanding applications, such as video and process monitoring, or intelligent transportation systems, all of which can benefit from a scalable backbone construction.

#### **Specifications**

InterfaceV0 Port8 x 10/100/1008ase-TX R1-45InterfaceConsole portR1-45FW backup portUSBPower ConnectorG-pin screw Terminal Block (including relay)PhysicalEnclosureAluminum ShellPhysicalProtection ClassIP 30Intersol (W X H x D)86 x 165 x 125 (mm)Dimensions (W x H x D)86 x 165 x 125 (mm)LED DisplayPort LEDUink Speed (Activity)Port LEDCorage Temperature-40 - 75° CCorage Temperature-40 - 75° CCAmbient Relative Humidity10 - 95% (non-condensing)Humidity10 - 95% (non-condensing)Humidity10 - 95% (non-condensing)Humidity10 - 95% (non-condensing)Power Input2448 V <sub>X</sub> dual inputsPower Input2448 V <sub>X</sub> dual inputsSelefulUicosoo Cito2Ethic (Corage Temperature)-40 - 62° CFreifalEthio100-6-4; Ethio100-6-4; Ethio100-4-4 (ESD) Level 3 Ethio100-4-4 (Magnetic Field) Level 4Power Input2448 V <sub>X</sub> dual inputsCertificationEthio100-6-4; Ethio100-6-2; Ethio100-4-4 (CS) Level 3 Ethio100-4-4 (Magnetic Field) Level 4Ethio100Ethio100-6-4; Ethio100-6-2; Ethio100-4-4 (CS) Level 3 Ethio100-4-4 (Magnetic Field) Level 4LED Corage Temperature-40 - 65° CAdvaluesEthio100-6-4; Ethio100-6-4; Ethio100-6-4; Ethio100-4-4 (CS) Level 3 Ethio100-4-4 (Magnetic Field) Level 4Ethio100Ethio100-6-4; Ethio100-6-4; Ethio100-6-4; Ethio100-6-4; Ethio100-6-4; Ethio100-6-4; Ethio100-6-4; Ethio100-6-4; Ethio100-6-4; Ethio10			
F/W backup port         USB           Power Connector         6-pin screw Terminal Blok (including relay)           Physical         FacIosure           Physical         Protection Class           Installation         DIN Rail           Dimensions (W x H x D)         86 x 165 x 125 (mm)           LED Display         System LED           Port LED         Link / Speed / Activity           Operating Temperature         -40 - 85° C           Ambient Relative Humidity         10 - 95% (non-condensing)           Power         Power Consumption           Power Tomsumption         -21.82 Watts (System)           Power Input         24/48 Vm, dual inputs           Safety         UL60950 C1D2           EtNI Ec Colose 2-32         Vibration           Vibration         IEC 60068-2-32           Freefail         IEC 60068-2-32           Freefail         IEC 60068-2-32           Vibration         IEC 60068-2-32           Freefail         IEC 60068-2-32           Vibration         IEC 60068-2-32		I/O Port	
Power Connector         6-pin screw Terminal Block (including relay)           Physical         Enclosure         Aluminum Shell           Protection Class         IP 30           Installation         DIN Rail           Dimensions (W x H x D)         86 x 165 x 125 (mm)           System LED         PWR1, PWR2, SYS, CFG, Alarm and R.M.           Port LED         Link / Speed / Activity           Operating Temperature         -40 - 75° C           Storage Temperature         -40 - 85° C           Ambient Relative Humidity         10 - 95% (non-condensing)           Kore Consumption         -21.82 Watts (System)           Power Consumption         -21.82 Watts (System)           Folder         EMIC         E.FoC Class A           Safety         UL60950 C1D2           EMC         Elec 60068-2-82           Vibration         IEC 60068-2-82	Interface	Console port	RJ-45
Physical         Enclosure         Aluminum Shell           Protection Class         IP 30           Installation         DIN Rail           Dimensions (W x H x D)         86 x 165 x 125 (mm)           LED Display         System LED         PWR1, PWR2, SYS, CFG, Alarm and R.M.           Operating Temperature         -40 - 75° C           Storage Temperature         -40 - 85° C           Ambient Relative Humidity         10 - 95% (non-condensing)           Humidity         10 - 95% (con-condensing)           Power Onsumption         ~ 21.82 Watts (System)           Power Input         24/48 V <sub>ac</sub> dual inputs           EMI         CEFC Class A           Safety         UL60950 C1D2           EMC         EN61000-4-4; (Surge) Level 4; EN61000-4-3 (RS) Level 3; EN61000-4-4 (EFT)           Level 4 EN61000-4-5; (Surge) Level 4; EN61000-4-8 (Magnetic Field) Level 4           Shock         IEC 60068-2-32           Vibration         IEC 60068-2-6           L2 MACA Address         16K           Jumbo Frame         12KB<		F/W backup port	USB
Physical         Protection Class         IP 30 Installation           DIN Rail         DIN Rail           Dimensions (W x H x D)         86 x 165 x 125 (mm)           System LED         PWR1, PWR2, SYS, CFG, Alarm and R.M.           Port LED         Link / Speed / Activity           Operating Temperature         -40 - 75° C           Ambient Relative Humidity         10 - 95% (non-condensing)           Humidity         10 - 95% (non-condensing)           Humidity         10 - 95% (non-condensing)           Power Consumption         -21.82 Watts (System)           Power Consumption         -21.82 Watts (System)           Power Input         24/48 Vm clual inputs           EMI         CE, FCC Class A           Sately         UL60950 C1D2           EMI         CE, FCC Class A           Sately         UL60950 C1D2           EMI         CE 60068-2-27           Freefall         IEC 60068-2-32           Vibration         IEC 60068-2-32           Vibration         IEC 60068-2-6           Jumbo Frame         12KB           VLAN Group         Mac Loased VLAN, Protocol based VLAN, Port based VLAN, Q-in-Q (VLAN Stacking), GVRP           VLAN Arrange         Mac Loased VLAN, Protocol based VLAN, IP subnet based VLAN, Port based		Power Connector	6-pin screw Terminal Block (including relay)
Physical         Installation         DIN Rail           Dimensions (W x H x D)         86 x 165 x 125 (nm)           System LED         PWR1, PWR2, SYS, CFG, Alarm and R.M.           Port LED         Link / Speed / Activity           Operating Temperature         -40 - 75° C           Strage Temperature         -40 - 85° C           Ambient Relative Humidity         10 - 95% (non-condensing)           Humidity         10 - 95% (non-condensing)           Humidity         10 - 95% (non-condensing)           Power         Power Consumption           Power Consumption         -21.82 Watts (System)           Power Input         24/48 V <sub>sc</sub> dual inputs           Safety         UL60950 C1D2           EMI         CE, FCC Class A           Safety         UL60950 C1D2           Excol         Excolore-2-27           Freefall         IEC 60068-2-27           Freefall         IEC 60068-2-26           Vibration         IEC 60068-2-32           Vibration         IEC 60068-2-6           L2 MAC Address         16K           Jumb Frame         12KB           VLAN Group         4K (VLAN ID 1-4094)           VLAN Group         Mac based VLAN, Protocol based VLAN, Port based VLAN, O-in-Q (VLAN Stackin		Enclosure	Aluminum Shell
Instalation         Diff Hall           Dimensions (W x H x D)         86 x 165 x 125 (mm)           LED Display         System LED         PWR1, PWR2, SYS, CFG, Alarm and R.M.           Port LED         Link / Speed / Activity           Operating Temperature         -40 - 75° C           Ambient Relative Humidity         10 - 95% (non-condensing)           Humidity         10 - 95% (non-condensing)           Humidity         10 - 95% (non-condensing)           Power         Power Consumption           Power Consumption         -21.82 Watts (System)           Power One Input         24/48 V <sub>cc</sub> dual inputs           Power Input         24/48 V <sub>cc</sub> dual inputs           Safety         UL60950 C1D2           EMC         EN61000-6-4; EN61000-6-2; EN61000-4-2 (ESD) Level 4 EN61000-4-3 (RS) Level 3; EN61000-4-4 (EFT)           Level 4 EN61000-4-5 (Surge) Level 4; EN61000-4-6 (CS) Level 3 EN61000-4-8 (Magnetic Field) Level 4           Shock         IEC 60068-2-27           Freetall         IEC 60068-2-26           Vibration         IEC 60068-2-66           VLAN Group         4K (VLAN ID 1-4094)           VLAN Group         4K (VLAN ID 1-4094)           VLAN Group         4K (VLAN ID 1-4094)           VLAN Arrange         GVRP           Por	Physical	Protection Class	
LED Display         System LED         PWR1, PWR2, SYS, CFG, Alarm and R.M.           Port LED         Link / Speed / Activity           Operating Temperature         -40 ~ 75° C           Storage Temperature         -40 ~ 85° C           Ambient Relative Humidity         10 - 95% (non-condensing)           Humidity         10 - 95% (non-condensing)           Power         Power Consumption           Power Input         24/48 Vnc dual inputs           EMI         CE, FCC Class A           Safety         UL60950 C1D2           EMC         EN61000-6-4; EN61000-6-2; EN61000-4-2 (ESD) Level 4 EN61000-4-3 (RS) Level 3; EN61000-4-4 (EFT)           Level 4 EN61000-6-4; EN61000-6-2; EN61000-4-2 (ESD) Level 3 EN61000-4-8 (Magnetic Field) Level 4           Shock         IEC 60068-2-27           Freefall         IEC 60068-2-32           Vibration         IEC 60068-2-6           L2 MAC Address         16K           Jumbo Frame         12KB           VLAN Group         4K (VLAN ID 1-4094)           VLAN Arrange         Mac based VLAN, Protocol based VLAN, IP subnet based VLAN, Q-in-Q (VLAN Stacking), GVP           Port Mirroring         Per port, Multi-source port, RSAPN,           IP Multicast         IGMP Snooping v1/v2/v3, MLD Snooping v1/M2/v3, MLD Snooping v1/mediate leave	T Hysioai		
LED Display         Port LED         Link / Speed / Activity           Port LED         Operating Temperature         -40 ~ 75° C           Ambient Relative Humidity         10 - 95% (non-condensing)           Humidity         10 - 95% (non-condensing)           Power         Power Consumption         ~ 21.82 Watts (System)           Power Input         24/48 Vnc. dual inputs           Entification         EMI         CE, FCC Class A           Safety         UL60950 C1D2           EMC         EN61000-6-2; EN61000-4-2 (ESD) Level 4 EN61000-4-3 (RS) Level 3; EN61000-4-4 (EFT)           Level 4 EN61000-4-5 (Surge) Level 4; EN61000-4-3 (RS) Level 3; EN61000-4-4 (EFT)           Evel 4 EN61000-4-5 (Surge) Level 4; EN61000-4-6 (CS) Level 3 EN61000-4-8 (Magnetic Field) Level 4           Shock         IEC 60068-2-27           Freefall         IEC 60068-2-6           L2 Features         24 MA Address           Jumbo Frame         12KB           VLAN Arrange         Mac based VLAN, Protocol based VLAN, Port based VLAN, Q-in-Q (VLAN Stacking), GVRP           Port Mirroring         Per port, Multi-source port, RSAPN,           IP Multicast         IGMP Snooping v1/v2/v3, MLD Snooping, IGMP Immediate leave           Storm Control         Broadcast, Multicast, Unknown unicast		1 <i>i</i>	
Point LED         Link / Speed / Activity           Operating Temperature         -40 ~ 75° C           Storage Temperature         -40 ~ 75° C           Ambient Relative Humidity         10 - 95% (non-condensing)           Humidity         10 - 95% (non-condensing)           Power         Power Consumption           Power Input         24/48 V <sub>Ic</sub> dual inputs           Power Input         24/48 V <sub>Ic</sub> dual inputs           EMI         CE, FCC Class A           Safety         UL60950 C1D2           EMC         EN61000-6-4; EN61000-4-2 (ESD) Level 4 EN61000-4-3 (RS) Level 3; EN61000-4-4 (EFT) Level 4 EN61000-4-5 (Surge) Level 4; EN61000-4-6 (CS) Level 3 EN61000-4-8 (Magnetic Field) Level 4           Shock         IEC 60068-2-27           Freefall         IEC 60068-2-32           Vibration         IEC 60068-2-32           Vibration         IEC 60068-2-32           Vibration         IEC 60068-2-32           Vibration         IEC 60068-2-32           VLAN Group         4K (VLAN ID 1-4094)           VLAN Group         4K (VLAN ID 1-4094)           VLAN Arrange         Mac based VLAN, Protocol based VLAN, IP subnet based VLAN, Q-in-Q (VLAN Stacking), GVP           Port Mirroring         Per port, Multi-source port, RSAPN, IP subnet based VLAN, Q-in-Q (VLAN Stacking), GVP	LED Display	,	
Environment         Storage Temperature         -40 - 85° C           Ambient Relative Humidity         10 - 95% (non-condensing)         -40 - 85° (non-condensing)           Humidity         10 - 95% (non-condensing)         -40 - 85° (non-condensing)           Power         Power Consumption         - 21.82 Watts (System)           Power Input         24/48 V <sub>hrc</sub> dual inputs           EMI         CE, FCC Class A           Safety         UL60950 C1D2           EMC         EN61000-6-4; EN61000-6-2; EN61000-4-2 (ESD) Level 4 EN61000-4-3 (RS) Level 3; EN61000-4-3 (RS) Level 4; EN61000-4-3 (RS) Level 3; EN61000-4-3 (RS) Level 4; EN6100-4-3 (RS) Level 4; EN61000-4-3 (RS) Level 4; EN61000-4-3 (RS) Level 4; EN6100, RS) Level 4; EN6100-4-3 (			
Environment         Ambient Relative Humidity         10 ~ 95% (non-condensing)           Humidity         10 ~ 95% (non-condensing)           Power         Power Consumption         ~ 21.82 Watts (System)           Power Input         24/48 V <sub>DC</sub> dual inputs           EMI         CE, FCC Class A           Safety         UL60950 C1D2           EMIC         EN61000-6-2; EN61000-6-2; EN61000-4-2 (ESD) Level 4 EN61000-4-3 (RS) Level 3; EN61000-4-4 (EFT)           Level 4 EN61000-6-4; EN61000-6-2; EN61000-4-6 (CS) Level 3 EN61000-4-8 (Magnetic Field) Level 4           Shock         IEC 60068-2-27           Freetal         IEC 60068-2-32           Vibration         IEC 60068-2-32           Vibration         IEC 60068-2-32           Vibration         IEC 60068-2-32           Vibration         IEC 60068-2-6           Vibration         IEC 60068-2-6           Vibration         IEC 60068-2-6           VLAN Group         4K (VLAN ID 1-4094)           VLAN Group         4K (VLAN ID 1-4094)           VLAN Group         4K (VLAN ID 1-4094)           VLAN Arrange         Mac based VLAN, Protocol based VLAN, Port based VLAN, Q-in-Q (VLAN Stacking), GVRP           Port Mirroring         Per port, Multi-source port, RSAPN,           IP Multicast         IGMP Snooping			
Ambient Relative Humidity       10 - 95% (non-condensing)         Humidity       10 - 95% (non-condensing)         Power       Power Consumption       ~ 21.82 Watts (System)         Power Input       24/48 Vnc dual inputs         EMI       CE, FCC Class A         Safety       UL60950 C1D2         EMC       EN61000-6-4; EN61000-6-2; EN61000-4-2 (ESD) Level 4 EN61000-4-3 (RS) Level 3; EN61000-4-4 (EFT))         Level 4 EN61000-4-5 (Surge) Level 4; EN61000-4-6 (CS) Level 3 EN61000-4-8 (Magnetic Field) Level 4         Shock       IEC 60068-2-27         Freefall       IEC 60068-2-32         Vibration       IEC 60068-2-6         L2 MAC Address       16K         Jumbo Frame       12KB         VLAN Group       4K (VLAN ID 1-4094)         VLAN Group       4K (VLAN, Protocol based VLAN, IP subnet based VLAN, Port based VLAN, Q-in-Q (VLAN Stacking), GVRP         Port Mirroring       Per port, Multi-source port, RSAPN,         IP Multicast       IGMP Snooping v1/v2/v3, MLD Snooping, IGMP Immediate leave         Storm Control       Broadcast, Multicast, Unknown unicast	Environment		
Power         Power Input         - 21.82 Watts (System)           Power Input         24/48 V <sub>nc</sub> dual inputs           EMI         CE, FCC Class A           Safety         UL60950 C1D2           EMC         EN61000-6-4; EN61000-6-2; EN61000-4-2 (ESD) Level 4 EN61000-4-3 (RS) Level 3; EN61000-4-4 (EFT) Level 4 EN61000-4-5 (Surge) Level 4; EN61000-4-6 (CS) Level 3 EN61000-4-8 (Magnetic Field) Level 4           Shock         IEC 60068-2-27 Freefall           Vibration         IEC 60068-2-32           Vibration         IEC 60068-2-6           L2 MAC Address         16K Jumbo Frame           VLAN Group         4K (VLAN ID 1-4094)           VLAN Group         4K (VLAN, Protocol based VLAN, IP subnet based VLAN, Port based VLAN, Q-in-Q (VLAN Stacking), GVRP           Port Mirroring         Per port, Multi-source port, RSAPN, IP Multicast           IP Multicast         IGMP Snooping v1/v2/v3, MLD Snooping, IGMP Immediate leave           Storm Control         Broadcast, Multicast, Unknown unicast	LINNOILIGH		
Power Input24/48 Vnc dual inputsEMICE, FCC Class ASafetyUL60950 C1D2EMCEN61000-6-4; EN61000-6-2; EN61000-4-2 (ESD) Level 4 EN61000-4-3 (RS) Level 3; EN61000-4-4 (EFT) Level 4 EN61000-4-5 (Surge) Level 4; EN61000-4-6 (CS) Level 3 EN61000-4-8 (Magnetic Field) Level 4ShockIEC 60068-2-27FreefallIEC 60068-2-32VibrationIEC 60068-2-6L2 MAC Address16K Jumbo FrameJumbo Frame12KBVLAN Group4K (VLAN ID 1-4094)VLAN ArrangeMac based VLAN, IP subnet based VLAN, Port based VLAN, Q-in-Q (VLAN Stacking), GVRPPort MirroringPer port, Multi-source port, RSAPN, IP MulticastIP MulticastIGMP Snooping v1/v2/v3, MLD Snooping, IGMP Immediate leave Storm Control			
Power Input24/48 Vpc dual inputsEMICE, FCC Class ASafetyUL60950 C1D2EMCEN61000-6-4; EN61000-6-2; EN61000-4-2 (ESD) Level 4 EN61000-4-3 (RS) Level 3; EN61000-4-4 (EFT) Level 4 EN61000-4-5 (Surge) Level 4; EN61000-4-6 (CS) Level 3 EN61000-4-8 (Magnetic Field) Level 4ShockIEC 60068-2-27FreefallIEC 60068-2-32VibrationIEC 60068-2-6VibrationIEC 60068-2-6VLAN Group4K (VLAN ID 1-4094)VLAN Group4K (VLAN ID 1-4094)VLAN GroupMac based VLAN, Protocol based VLAN, IP subnet based VLAN, Port based VLAN, Q-in-Q (VLAN Stacking), GVRPPort MirroringPer port, Multi-source port, RSAPN, IP MulticastIP MulticastIGMP Snooping v1/v2/v3, MLD Snooping, IGMP Immediate leave Storm ControlBroadcast, Multicast, Unknown unicastBroadcast, Multicast, Unknown unicast	Power		
Safety         UL60950 C1D2           EMC         EN61000-6-4; EN61000-6-2; EN61000-4-2 (ESD) Level 4 EN61000-4-3 (RS) Level 3; EN61000-4-4 (EFT) Level 4 EN61000-4-5 (Surge) Level 4; EN61000-4-6 (CS) Level 3 EN61000-4-8 (Magnetic Field) Level 4           Shock         IEC 60068-2-27           Freefall         IEC 60068-2-32           Vibration         IEC 60068-2-6           Jumbo Frame         12KB           VLAN Group         4K (VLAN ID 1-4094)           VLAN Arrange         Mac based VLAN, Protocol based VLAN, IP subnet based VLAN, Port based VLAN, Q-in-Q (VLAN Stacking), GVRP           Port Mirroring         Per port, Multi-source port, RSAPN, IP Multicast           IGMP Snooping v1/v2/v3, MLD Snooping, IGMP Immediate leave         Storm Control		· · · · · · · · · · · · · · · · · · ·	
Certification       EMC       EN61000-6-4; EN61000-4-2 (ESD) Level 4 EN61000-4-3 (RS) Level 3; EN61000-4-4 (EFT) Level 4 EN61000-4-5 (Surge) Level 4; EN61000-4-6 (CS) Level 3 EN61000-4-8 (Magnetic Field) Level 4         Shock       IEC 60068-2-27         Freefall       IEC 60068-2-32         Vibration       IEC 60068-2-6         L2 MAC Address       16K         Jumbo Frame       12KB         VLAN Group       4K (VLAN ID 1-4094)         VLAN Group       4K (VLAN, Protocol based VLAN, IP subnet based VLAN, Port based VLAN, Q-in-Q (VLAN Stacking), GVRP         Port Mirroring       Per port, Multi-source port, RSAPN, IP Multicast         IP Multicast       IGMP Snooping v1/v2/v3, MLD Snooping, IGMP Immediate leave         Storm Control       Broadcast, Multicast, Unknown unicast		EMI	CE, FCC Class A
Certification       EMC       Level 4 EN61000-4-5 (Surge) Level 4; EN61000-4-6 (CS) Level 3 EN61000-4-8 (Magnetic Field) Level 4         Shock       IEC 60068-2-27         Freefall       IEC 60068-2-32         Vibration       IEC 60068-2-6         L2 MAC Address       16K         Jumbo Frame       12KB         VLAN Group       4K (VLAN ID 1-4094)         VLAN Group       4K (VLAN ID 1-4094)         VLAN Arrange       Mac based VLAN, Protocol based VLAN, IP subnet based VLAN, Q-in-Q (VLAN Stacking), GVRP         Port Mirroring       Per port, Multi-source port, RSAPN,         IP Multicast       IGMP Snooping v1/v2/v3, MLD Snooping, IGMP Immediate leave         Storm Control       Broadcast, Multicast, Unknown unicast		Safety	UL60950 C1D2
Freefall         IEC 60068-2-32           Vibration         IEC 60068-2-6           L2 MAC Address         16K           Jumbo Frame         12KB           VLAN Group         4K (VLAN ID 1-4094)           VLAN Arrange         Mac based VLAN, Protocol based VLAN, IP subnet based VLAN, Port based VLAN, Q-in-Q (VLAN Stacking), GVRP           Port Mirroring         Per port, Multi-source port, RSAPN,           IP Multicast         IGMP Snooping v1/v2/v3, MLD Snooping, IGMP Immediate leave           Storm Control         Broadcast, Multicast, Unknown unicast	Certification	EMC	
Vibration         IEC 60068-2-6           L2 MAC Address         16K           Jumbo Frame         12KB           VLAN Group         4K (VLAN ID 1-4094)           VLAN Arrange         Mac based VLAN, Protocol based VLAN, IP subnet based VLAN, Port based VLAN, Q-in-Q (VLAN Stacking), GVRP           Port Mirroring         Per port, Multi-source port, RSAPN,           IP Multicast         IGMP Snooping v1/v2/v3, MLD Snooping, IGMP Immediate leave           Storm Control         Broadcast, Multicast, Unknown unicast		Shock	IEC 60068-2-27
L2 MAC Address       16K         Jumbo Frame       12KB         VLAN Group       4K (VLAN ID 1~4094)         VLAN Arrange       Mac based VLAN, Protocol based VLAN, IP subnet based VLAN, Port based VLAN, Q-in-Q (VLAN Stacking), GVRP         Port Mirroring       Per port, Multi-source port, RSAPN,         IP Multicast       IGMP Snooping v1/v2/v3, MLD Snooping, IGMP Immediate leave         Storm Control       Broadcast, Multicast, Unknown unicast		Freefall	IEC 60068-2-32
Jumbo Frame       12KB         VLAN Group       4K (VLAN ID 1-4094)         VLAN Arrange       Mac based VLAN, Protocol based VLAN, IP subnet based VLAN, Port based VLAN, Q-in-Q (VLAN Stacking), GVRP         Port Mirroring       Per port, Multi-source port, RSAPN,         IP Multicast       IGMP Snooping v1/v2/v3, MLD Snooping, IGMP Immediate leave         Storm Control       Broadcast, Multicast, Unknown unicast		Vibration	IEC 60068-2-6
L2 Features       VLAN Group       4K (VLAN ID 1~4094)         VLAN Arrange       Mac based VLAN, Protocol based VLAN, IP subnet based VLAN, Port based VLAN, Q-in-Q (VLAN Stacking), GVRP         Port Mirroring       Per port, Multi-source port, RSAPN,         IP Multicast       IGMP Snooping v1/v2/v3, MLD Snooping, IGMP Immediate leave         Storm Control       Broadcast, Multicast, Unknown unicast		L2 MAC Address	
L2 Features         VLAN Arrange         Mac based VLAN, Protocol based VLAN, IP subnet based VLAN, Port based VLAN, Q-in-Q (VLAN Stacking), GVRP           Port Mirroring         Per port, Multi-source port, RSAPN, IP Multicast         IGMP Snooping v1/v2/v3, MLD Snooping, IGMP Immediate leave           Storm Control         Broadcast, Multicast, Unknown unicast		Jumbo Frame	
L2 Features GVRA Arrange GVRP Port Mirroring Per port, Multi-source port, RSAPN, IP Multicast IGMP Snooping v1/v2/v3, MLD Snooping, IGMP Immediate leave Storm Control Broadcast, Multicast, Unknown unicast	L2 Features	VLAN Group	
IP Multicast IGMP Snooping v1/v2/v3, MLD Snooping, IGMP Immediate leave Storm Control Broadcast, Multicast, Unknown unicast		VLAN Arrange	
Storm Control Broadcast, Multicast, Unknown unicast		Port Mirroring	
Spanning Tree IEEE 802.1D-STP, IEEE 802.1s-MSTP, IEEE 802.1w-RSTP, X-Ring+			
		Spanning Tree	IEEE 802.1D-STP, IEEE 802.1s-MSTP, IEEE 802.1w-RSTP, X-Ring+

### Specifications Cont.

	Priority Queue Scheduling	WRR (Weighted Round Robin), SP (Strict Priority), Hybrid Priority
0.00	Class of Service	IEEE 802.1p Based CoS, IP TOS, DSCP based CoS
QoS	Rate Limiting	Ingress Rate limit, Egress Rate limit
	Link Aggregation	IEEE 802.3ad Dynamic Port Trunking, Static Port Trunking
	Port Security	Static, Dynamic
Security	Authentication	802.1x (Port-Based, MAC-Based, MD5/TLS/TTLS/PEAP Encryption), RADUIS, TCACAS+
	ACL	1K rules
	Advanced Security	IP Source guard, ARP inspection, DHCP Snooping
	DHCP	Client, Server, Relay, Option66/67/82
Management	Access	SNMP v1/v2c/v3, WEB, Telnet, RMON, Standard MIB, Private MIB
	Security access	SSH2.0, SSL
	Software upgrade	TFTP, HTTP, Dual Image
	NTP	NTP client/server



## **Ordering Information**

	Part number	Description		
	EKI-9312-COID42E	Layer 2 Fastpath, 8xGbE 100/1000Base-T + 4x GbE SFP w/ 24/48 DVC Redundant Power Input		
Contact our cales for more pricing & ordering information				

Product Status Mass Production

Contact our sales for more pricing  $\&\ {\rm ordering}\ {\rm information}.$