ECIS 4500 SERIES
INDUSTRIAL ETHERNET SWITCHES
BEST CHOICE FOR SURVEILLANCE, FACTORY AUTOMATION AND INTELLIGENT TRANSPORTATION

Overview

The Edgecore ECIS4500 series are managed industrial PoE+ and non-PoE+ Gigabit Ethernet switches. The ECIS4500PoE series switches comply to the IEEE 802.3 af/at standard and are able to deliver up to 30 watts of power per port along with data over standard Ethernet cabling.

The switches can be used to power any IEEE 802.3af/at-compliant PoE PD devices, and include PoE power management features that ease the deployment effort and PoE power budget planning, as well as eliminating the need for additional wiring to reach a power source. The ECIS4500 series switches provide Gigabit Ethernet ports for upgrading the existing Fast Ethernet network infrastructure to full Gigabit speed. Gigabit Ethernet networks provide a higher bandwidth than the legacy Fast Ethernet networks and reduces the response time for time-sensitive applications. With powerful features, the ECIS4500 series are easy to deploy and manage the network, providing reliable and quality service for growing network traffic demand.

Features and Benefit

Rugged Industrial Design - The ECIS4500 series are designed with IP30 metal case for harsh industrial environment. It provides high level of protection for electromagnetic interference occurred in factory and transportation applications. The design is compliant with EN 50121-4 for electromagnetic compatibility, emission and immunity requirements for railway traffic applications.

Performance and Scalability – High-performance Gigabit Ethernet Layer 2+ managed switches with 24/20 Gbps switching capacity. Deliver wire-speed switching performance on all Gigabit ports.

Continuous Availability – The ECIS4500 series support fast failover ring protection (E-Ring) with the ability for the network to detect and recover from incidents without impacting users. Rapid recover time when problems do occur is as low as 20 ms.

Enhanced Security – DHCP snooping allows a switch to protect a network from rouge DHCP servers that offer invalid IP addresses. Secure Shell (SSH) and Secure Sockets Layers (SSL/HTTPS) encrypt Telnet and web access to the switch, providing secure network management.
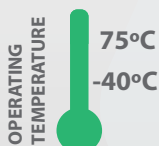
Service Monitoring and Management – The ECIS4500 series allow administrators to monitor all incoming traffic in one or more VLANs by sending a mirror image of that traffic to a configured mirror port. It also provides the capability to manage service availability, identify connectivity and performance issues.

Comprehensive QoS – The ECIS4500 series offer advanced QoS for shaping, classification, and scheduling to deliver best-in-class performance for data, voice, and video traffic at wire speed.
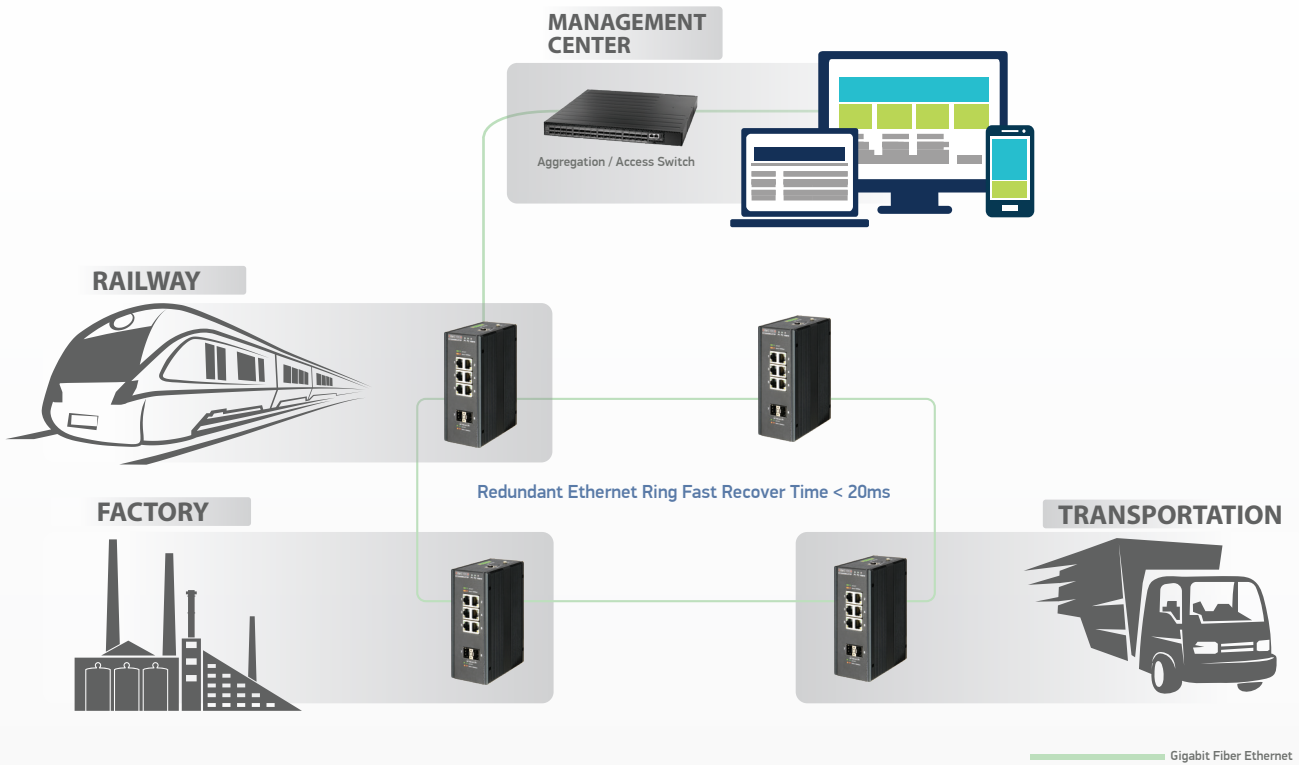
Robust Multicast Control - IGMP groups allow you to create customer packages for IP-TV channels, making switch configuration easy. IGMP Filtering prevents subscribers seeing unsubscribed IP-TV channels. And, IGMP Throttling allows you to set how many IP-TV channels a subscriber can receive simultaneously.

Superior Management – The ECIS4500 series support SNMPv1, 2c, 3 and four-group RMON. The switches provide a complete private MIB for the configuration of most functions via the SNMP protocol. Administrators can upgrade and restore firmware and configuration files via TFTP.
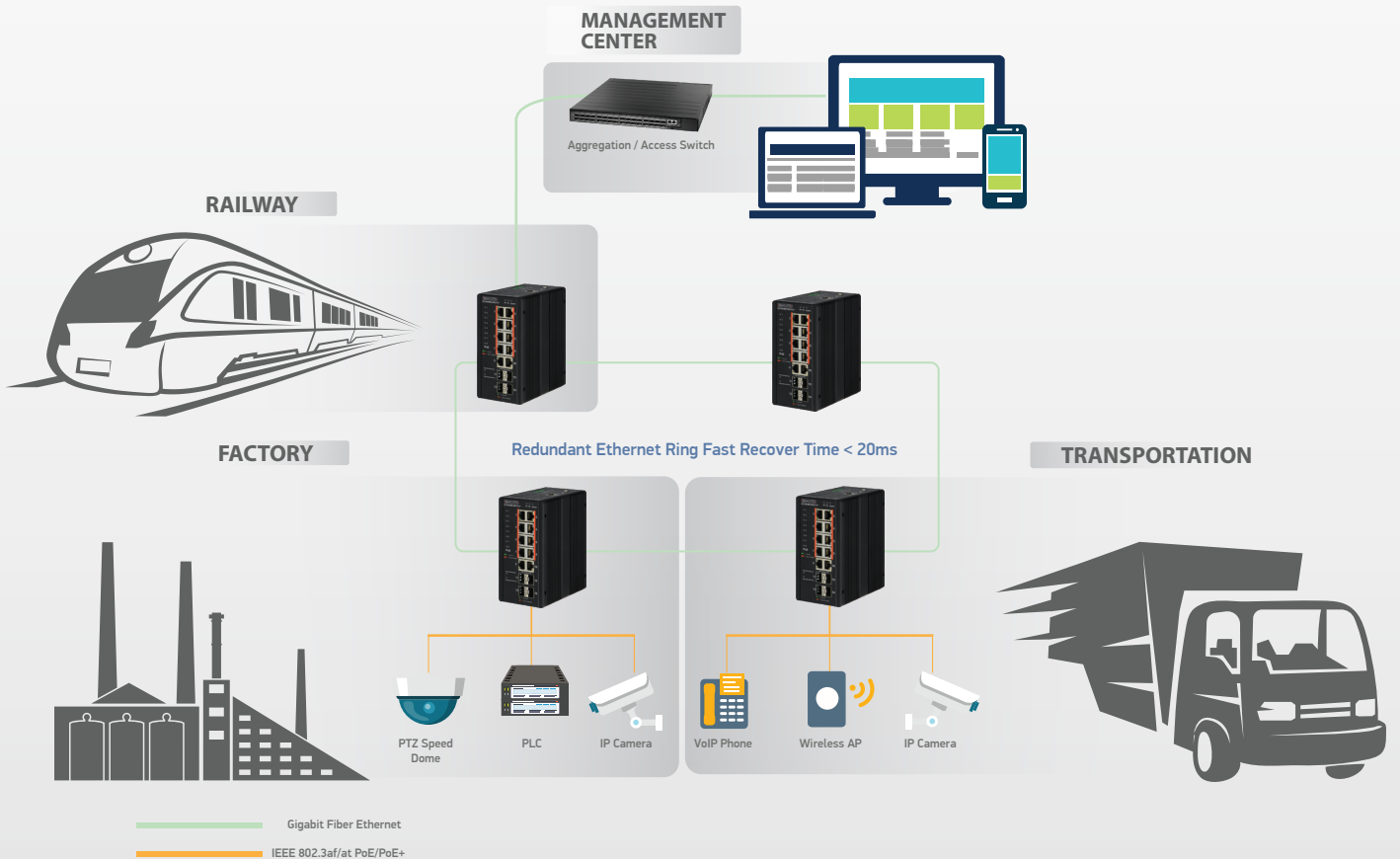
PoE PSE Support – The ECIS4500 PoE series support PoE as a Power Sourcing Equipment (PSE) device to any attached devices, such as VoIP phones, wireless access points, and surveillance cameras, all over existing Ethernet cables.

GIGABIT

OPERATING TEMPERATURE
75ºC
-40ºC

SUPERIOR MANAGEMENT

IEEE
802.3AT/AF
COMPLIANT

RICH LAYER 2
FEATURES

NETWORK APPLICATIONS

MANAGEMENT CENTER

Aggregation / Access Switch

RAILWAY

Redundant Ethernet Ring Fast Recover Time < 20ms

FACTORY

TRANSPORTATION

Gigabit Fiber Ethernet

NETWORK APPLICATIONS (PoE)

MANAGEMENT CENTER

Aggregation / Access Switch

RAILWAY

Redundant Ethernet Ring Fast Recover Time < 20ms

FACTORY

TRANSPORTATION

PTZ Speed Dome

PLC

IP Camera

VoIP Phone

Wireless AP

IP Camera

Gigabit Fiber Ethernet

IEEE 802.3af/at PoE/PoE+

ECIS4500PoE and ECIS4500 Series
Feature Matrix Table

	Model Number	ECIS4500-8P2T4F	ECIS4500-8P4F	ECIS4500-4P2T2F	ECIS4500-4P4T	ECIS4500-6T2F	ECIS4500-6T4F	ECIS4500-8T2F
Port	RJ-45 10/100/1000 BASE-T Ports	10	8	6	8	6	6	8
	100/1000 BASE-X SFP Ports	4	4	2	0	2	4	2
	10/100/1000 Combo Ports	0	0	0	0	0	0	0
	SFP+ 10 Gigabit Uplink Ports	0	0	0	0	0	0	0
	RJ-45 Console Port	1	1	1	1	1	1	1
Performance	Switchng Capacity	28 Gbps	24 Gbps	16 Gbps	16 Gbps	16 Gbps	20 Gbps	20 Gbps
	Forwarding Rate	17.9 Mpps	17.9 Mpps	17.9 Mpps	17.9 Mpps	17.9 Mpps	17.9 Mpps	17.9 Mpps
	Flash Memory	16 MB	16 MB	16 MB	16 MB	16 MB	16 MB	16 MB
	DRAM	128 MB	128 MB	128 MB	128 MB	128 MB	128 MB	128 MB
	Throughout (packet perk second)	14.8 Mpps	14.8 Mpps	14.8 Mpps	14.8 Mpps	14.8 Mpps	14.8 Mpps	14.8 Mpps
	MAC Address Table Size	8 K	8 K	8 K	8 K	8 K	8 K	8 K
	Jumbo Frames	9 KB	9 KB	9 KB	9 KB	9 KB	9 KB	9 KB
	Auto-negotiation, Auto-MDI/MDIX	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Mechanical	Installation Option	DIN-rail and wall mount						
	Dimension (W x D x H)	154 x 109 x 60 mm				77 x 128 x 154 mm		
	Weight	1.4 kg	1.4 kg	1.4 kg	1.4 kg	1.1 kg	1.1 kg	1.1 kg
PoE	IEEE 802.3af/802.3at	Yes	Yes	Yes	Yes	-	-	-
	Ultra PoE	Yes	No	No	No	-	-	-
	PoE Power Budget	240 W		120 W		-	-	-
	PoE Scheduling	Yes	Yes	Yes	Yes	-	-	-
Power Supply	DC Power Input (46-58 V)	Yes	Yes	Yes	Yes	12-58 VDC		
	Max System Power Consumption (Watts)	265 W	265 W	145 W	145 W	9.96 W @12 VDC 10.1 W @48 VDC		
Environmental	Operating Temperature	-40°C to 75°C						
	Storage Temperature	-40°C to 85°C						
	Humidity (non-condensing)	5% to 95%						
	Environmental Regulation Compliance: WEEE	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Environmental Regulation Compliance: RoHS	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Certification	FCC Class A	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	CE	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Safety Compliance: CB	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Safety Compliance: UL	Yes	Yes	Yes	Yes	Yes	Yes	Yes

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