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Industrial Communication

- ☞ 11-4 Industrial Ethernet Switches
- ☞ 11-14 Industrial Cellular Routers & Gateways
- ☞ 11-17 Industrial Wireless Solutions
- ☞ 11-20 Industrial Media Converters



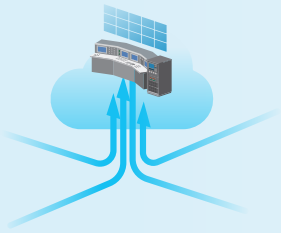
Industrial Communication in the IoT Era

Providing Interconnected Solutions for Advantech's Mission of Enabling an Intelligent Planet

In the age of Internet of Things (IoT), the trend in industrial communication is for all devices, equipment, and machines to be able to connect and communicate with each other to increase productivity, efficiency, and scalability. One of Advantech's core missions is to offer the best-in-class industrial communication solutions including both wired and wireless technologies that can truly help users leverage the full potential of IoT in the most efficient and productive way.



Our Technologies



Intelligent Connectivity Software

Advantech intelligent connectivity software platform provides provisioning and management software, aiming at serving users a tailored management solution based on different user scenarios.

- WebAccess/DMP for provisioning and managing status of each routing device and application
- WebAccess/NMS for monitoring the interconnectivity status of the whole network system
- WebAccess/VPN for remote asset control and management



Network Edge

Advantech's cellular routing solutions open up endless IoT possibilities. Advantech's cellular routers support direct communication between MQTT-enabled devices and the cloud. Built-in Node-RED technology enables smart data processing for fast dashboard development and monitoring using Advantech's WISE/PaaS management software cloud solution.

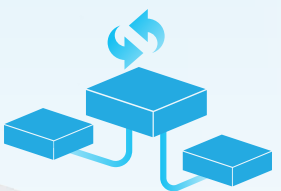
- Support for inter-operation with global 5G/LTE/3G coverage
- Cyber security protection by firewall, NAT, and VPN
- Intelligent gateway support for LoRaWAN, or Mesh networks for Industrial IoT
- Intelligent ODB cellular gateway supports G5 CatM1



Wired and Wireless Network Infrastructure

Advantech provides a comprehensive product portfolio to help users build a robust, secure and scalable wired or wireless networking infrastructure.

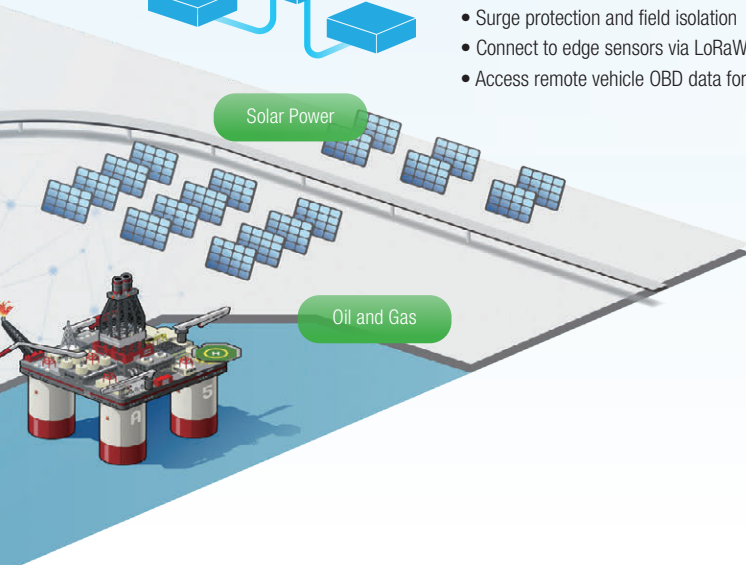
- Supports various industrial Ethernet protocols, such as TCP/IP, Ethernet/IP, PROFINET, CC-link, OPC UA, etc.
- Compliant with CID2, ATEX, IECEx certifications for hazardous environments
- Cyber security protection within the network
- Layer 3 Routing Protocols: RIP, OSPF, and VRRP
- Advantech's patented IXM technology for rapid deployment, saving up to 90% of engineering time and resources
- Advantech security gateway with firewall and Ethernet switch with security pack protects against internal and external cyber attacks



Protocol and Interface Conversion Solutions

Advantech offers numerous wired and wireless products to convert different industrial protocols and interfaces to modern networking systems to avoid a complete overhaul of existing equipment & devices, saving cost and avoiding software programming errors.

- Supports various industrial Ethernet protocols including TCP/IP, Ethernet/IP, PROFINET, BACnet, OPC UA and more
- Surge protection and field isolation
- Connect to edge sensors via LoRaWAN, MESH technologies
- Access remote vehicle OBD data for telematics services providers (TSP) and fleet management applications



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Serial/USB Communications

Industrial Ethernet Solutions

Unmanaged Ethernet Switches



Model Name		EKI-2525LI-AE	EKI-2526M/S	EKI-2725/I	EKI-2728/I	EKI-2728S/2728SI	EKI-2728M/MI
Description		5 x Fast Ethernet ports Slim Type Unmanaged Switch	4+2 100FX Port Multi-mode/ Single-mode Industrial Ethernet Switch	5-port Gigabit Unmanaged Industrial Ethernet Switch	8-port Gigabit Unmanaged Industrial Ethernet Switch	6GE+2G Single-Mode Fiber Port Unmanaged Ethernet Switch	6G+2G Multi-Mode Unmanaged Ethernet Switch
Interface	Number of Ports	5	6	5	8	8	8
	10/100Base-T (X)	5	4	–	–	–	–
	100BaseFX	–	2	–	–	–	–
	10/100/1000Base-T (X)	–	–	5	8	6	6
	1000Base-SX/LX/ LHX/XD/ZX/EZX	–	–	–	–	2 x SC Single Mode	2
Power	12~48 V _{DC}	✓	✓	✓	✓	✓	✓
	Relay Output	–	✓	✓	✓	✓	✓
Mechanism	DIN-rail Mount	✓	✓	✓	✓	✓	✓
	Wall Mount	✓	✓	✓	✓	✓	✓
	IP Level	40	IP30	IP30	IP30	IP30	IP30
Protection	ESD (Ethernet)	✓	✓	✓	✓	✓	✓
	Surge (EFT for power)	✓	✓	✓	✓	✓	✓
	Power Reverse	✓	✓	✓	✓	✓	✓
Operating Temperature	-10 ~ 60°C (14 ~ 140°F)	–	✓	EKI-2725	EKI-2728	EKI-2728S	EKI-2728M
	-40 ~ 75°C (-40 ~ 167°F)	✓	–	EKI-2725I	EKI-2728I	EKI-2728SI	EKI-2728MI
Certifications	CE	✓	✓	✓	✓	✓	✓
	FCC	✓	✓	✓	✓	✓	✓
	UL/cUL 60950-1	✓	✓	✓	✓	✓	–
	Class I, Division 2	–	–	–	–	–	✓
	UL 508	–	–	–	–	–	✓

✓ : supported, – : not supported, △ : optional

Industrial Ethernet Solutions

Unmanaged Ethernet Switches



Model Name		EKI-5524SSI/ MMI Series	EKI-5525SI/MMI Series	EKI-5528I EKI-5525I	EKI-5626CI	EKI-5725I EKI-5728I	EKI-5726I
Description		4-port + 2x100FX port (Single/Multimode, SC/ST type), Fast Ethernet Switch	4-port + 1x100FX port (Single/Multi-mode, SC/ST type), Fast Ethernet Switch	8/5-port Fast Ethernet Switch	16FE + 2GE Combo Ethernet Switch	5/8-port Gigabit Ethernet Switch	16-port Gigabit Ethernet Switch
Interface	Number of Ports	6	4	8/5	18	5/8	16
	10/100Base-T (X)	4	4	8/5	16	–	–
	100BaseFX	2	1	–	–	–	–
	10/100/1000Base-T (X)	–	–	–	2 (combo)	5/8	16
	1000Base-SX/LX/LHX/XD/ZX/EZX	–	–	–	2 (combo)	–	–
Network Management	Configuration	–	–	–	–	–	✓
	SNMP	–	–	–	–	✓	✓
Power	12~48 V _{DC}	✓	✓	✓	✓	✓	✓
	Relay Output	✓	✓	✓	✓	✓	✓
Mechanism	DIN-rail Mount	✓	✓	✓	✓	✓	✓
	Wall Mount	✓	✓	✓	✓	✓	✓
	IP Level	IP30	IP30	IP30	IP30	IP30	IP30
Protection	ESD (Ethernet)	✓	✓	✓	✓	✓	✓
	Surge (EFT for power)	✓	✓	✓	✓	✓	✓
	Power Reverse	✓	✓	✓	✓	✓	✓
Operating Temperature	–40 ~ 75°C (–40 ~ 167°F)	✓	✓	✓	✓	✓	✓
Certifications	CE	✓	✓	✓	✓	✓	✓
	FCC	✓	✓	✓	✓	✓	✓
	Class I, Division 2	✓	✓	✓	✓	✓	✓
	UL 508	✓	✓	✓	✓	✓	✓

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Serial/USB Communications

Industrial Ethernet Solutions

Unmanaged Ethernet Switches



Model Name		EKI-5726FI	EKI-5729FI	EKI-2428G-4CA EKI-2428G-4CAI	EKI-2525MI/SI-ST	EKI-2525MI/SI
Description		16-port+2 SFP Gigabit Ethernet Switch	8-Port+2 SFP Gigabit Ethernet Switch	24GFE+4SFP Giga ports Unmanaged Switch w/ AC Input	4+1 100FX Port Multi-mode/ Single-mode ST connector type Unmanaged Industrial Ethernet Switch	4+1 100FX Port Multi-mode/ Single-mode Unmanaged Industrial Ethernet Switch
Interface	Number of Ports	16	8	28	5	5
	10/100Base-T (X)	–	–	–	4	4
	100BaseFX	✓	✓	–	1	1
	10/100/1000Base-T (X)	16	8	24 + 4 (combo)	–	–
	1000Base-SX/LX/ LHX/XD/ZX/EZX	✓	✓	4 (combo)	–	–
	Console	✓	✓	–	–	–
Network Management	Redundancy	–	–	–	–	–
	Configuration	✓	✓	–	–	–
	SNMP	✓	✓	–	–	–
Power	12~48 V _{DC}	✓	✓	–	✓	✓
	100~240 V _{AC}	–	–	✓	–	–
	Relay Output	✓	✓	–	✓	✓
Mechanism	DIN-rail Mount	✓	✓	–	✓	✓
	Wall Mount	✓	✓	–	✓	✓
	Rack Mount	–	–	✓	–	–
	IP Level	IP30	IP30	–	IP30	IP30
Protection	ESD (Ethernet)	✓	✓	✓	✓	✓
	Surge (EFT for power)	✓	✓	✓	✓	✓
	Power Reverse	✓	✓	–	✓	✓
Operating Temperature	-10 ~ 60°C (14 ~ 140°F)	–	–	EKI-2428G-4CA: 0 ~ 60°C (32 ~ 140°F)	✓	✓
	-40 ~ 75°C (-40 ~ 167°F)	✓	✓	EKI-2428G-4CAI: -20 ~ 75°C (-4 ~ 167°F)	–	–
Certifications	CE	✓	✓	✓	✓	✓
	FCC	✓	✓	✓	✓	✓
	UL/cUL 60950-1	–	–	–	✓	✓
	Class I, Division 2	✓	✓	–	–	–
	UL 508	✓	✓	–	–	–
	Others	–	–	LVD 62368-1	–	–

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Industrial Ethernet Solutions

Entry-level Managed Switches



Model Name		EKI-5526I-MB EKI-5526I-PN EKI-5526I-EI	EKI-5528I-MB EKI-5528I-PN EKI-5528I-EI	EKI-5626CI-MB EKI-5626CI-PN EKI-5626CI-EI	EKI-5629CI-MB EKI-5629CI-PN EKI-5629CI-EI	EKI-5726I-MB	EKI-5728I-MB	EKI-5729I-MB
Description		16FE Entry-level Managed Switch	8FE Entry-level Managed Switch	16FE+2GE Combo Ports Entry-level Managed Switch	8FE+2GE Combo Ports Entry-level Managed Switch	16GE Entry-level Managed Switch	8GE Entry-level Managed Switch	8GE + 2 SFP Entry-level Managed Switch
Interface	Number of Ports	16	8	16+2	8+2	16	8	8+2
	10/100Base-T (X)	16	8	16	8	–	–	–
	100BaseFX	–	–	–	–	–	–	–
	10/100/1000Base-T (X)	–	–	2/2 (combo)	2/2 (combo)	16	8	8
	1000Base-SX/LX/LHX/XD/ZX/EZX	–	–	2/2 (combo)	2/2 (combo)	–	–	2
	PoE (10/100 Mbps)	–	–	–	–	–	–	–
	PoE (10/100/1000 Mbps)	–	–	–	–	–	–	–
	DI/DO	–	–	–	–	–	–	–
	Console	–	–	–	–	–	–	–
Network Management	Redundancy	✓	✓	✓	✓	✓	✓	✓
	Diagnostics	✓	✓	✓	✓	✓	✓	✓
	VLAN	✓	✓	✓	✓	✓	✓	✓
	Configuration	✓	✓	✓	✓	✓	✓	✓
	SNMP	✓	✓	✓	✓	✓	✓	✓
	Security	✓	✓	✓	✓	✓	✓	✓
	Traffic Control	✓	✓	✓	✓	✓	✓	✓
Power	12~48 V _{DC}	✓	✓	✓	✓	✓	✓	✓
	24~110 V _{DC}	–	–	–	–	–	–	–
	100~240 V _{AC}	–	–	–	–	–	–	–
	Relay Output	✓	✓	✓	✓	✓	✓	✓
Mechanism	DIN-rail Mount	✓	✓	✓	✓	✓	✓	✓
	Wall Mount	✓	✓	✓	✓	✓	✓	✓
	Rack Mount	–	–	–	–	–	–	–
	IP Level	IP30	IP30	IP30	IP30	IP30	IP30	IP30
Protection	ESD (Ethernet)	✓	✓	✓	✓	✓	✓	✓
	Surge (EFT for power)	✓	✓	✓	✓	✓	✓	✓
	Power Reverse	✓	✓	✓	✓	✓	✓	✓
Operating Temperature	-10 ~ 60°C (14 ~ 140°F)	–	–	–	–	–	–	–
	-40 ~ 75°C (-40 ~ 167°F)	✓	✓	✓	✓	✓	✓	✓
	-40 ~ 85°C (-40 ~ 185°F)	–	–	–	–	–	–	–
Certifications	CE	✓	✓	✓	✓	✓	✓	✓
	FCC	✓	✓	✓	✓	✓	✓	✓
	UL/cUL 60950-1	–	–	–	–	–	–	–
	Class I, Division 2	✓	✓	✓	✓	✓	✓	✓
	UL 508	✓	✓	✓	✓	✓	✓	✓
	Others	–	–	–	–	–	–	–

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Serial/USB Communications

Industrial Ethernet Solutions

Managed Switches



Model Name		EKI-7428G-4X	EKI-7412G-4XP	EKI-7428G-4CA	EKI-7706E-2F/I	EKI-7706G-2F/I	EKI-7708E-4F/I	EKI-7708G-4F/I
Description		24GE+4SFP 10G Managed Switch w/ AC Input	8GE + 4 SFP 10G, PoE 10/100/1000 Managed Switch w/ AC Input	24GE+4SFP Giga Managed Redundant Switch w/ AC Input	4FE+2SFP Giga Managed Redundant Industrial Switch	4GE+2SFP Giga Managed Redundant Industrial Switch	4FE+4SFP Giga Managed Redundant Industrial Switch	4GE+4SFP Giga Managed Redundant Industrial Switch
Interface	Number of Ports	28	12	28	6	6	8	8
	10/100Base-T (X)	–	–	–	4	–	4	–
	100BaseFX	–	–	–	–	–	–	–
	10/100/1000Base-T (X)	24	–	24 + 4 (combo)	–	4	–	4
	1000Base-SX/LX/ LHX/XD/ZX/EZX	4 x SFP+ (10G)	4 x SFP+ (10G)	4 (combo)	2	2	4	4
	PoE (10/100 Mbps)	–	–	–	–	–	–	–
	PoE (10/100/1000 Mbps)	–	8	–	–	–	–	–
	HSR/PRP	–	–	–	–	–	–	–
Network Management	Console	✓	✓	✓	✓	✓	✓	✓
	Redundancy	✓	✓	✓	✓	✓	✓	✓
	Diagnostics	✓	✓	✓	✓	✓	✓	✓
	VLAN	✓	✓	✓	✓	✓	✓	✓
	Configuration	✓	✓	✓	✓	✓	✓	✓
	SNMP	✓	✓	✓	✓	✓	✓	✓
	Security	✓	✓	✓	✓	✓	✓	✓
	Traffic Control	✓	✓	✓	✓	✓	✓	✓
Power	12~48 V _{DC}	–	–	–	✓	✓	✓	✓
	24~110 V _{DC}	–	–	–	–	–	–	–
	100~240 V _{AC}	✓	✓	✓	–	–	–	–
	Relay Output	–	–	–	✓	✓	✓	✓
Mechanism	DIN-rail Mount	–	–	–	✓	✓	✓	✓
	Wall Mount	–	–	–	✓	✓	✓	✓
	Rack Mount	✓	✓	✓	–	–	–	–
	IP Level	–	–	–	IP30	IP30	IP30	IP30
Protection	ESD (Ethernet)	✓	✓	✓	✓	✓	✓	✓
	Surge (EFT for power)	✓	✓	✓	✓	✓	✓	✓
	Power Reverse	✓	✓	✓	✓	✓	✓	✓
Operating Temperature	-10 ~ 60°C (14 ~ 140°F)	0 ~ 60°C (32 ~ 140°F)	0 ~ 60°C (32 ~ 140°F)	-10 ~ 55°C (14 ~ 131°F)	EKI-7706E-2F	EKI-7706G-2F	EKI-7708E-4F	EKI-7708G-4F
	-40 ~ 75°C (-40 ~ 167°F)	–	–	–	EKI-7706E-2FI	EKI-7706G-2FI	EKI-7708E-4FI	EKI-7708G-4FI
	-40 ~ 85°C (-40 ~ 185°F)	–	–	–	–	–	–	–
Certifications	CE	✓	–	✓	✓	✓	✓	✓
	FCC	✓	✓	✓	✓	✓	✓	✓
	UL/cUL 60950-1	–	–	✓	–	–	–	–
	Class I, Division 2	–	–	–	–	–	–	–
	UL 508	–	–	–	–	–	–	–
Others		LVD 62368-1	LVD 62368-1	LVD 62368-1	EN50121-4 UL 61010 LVD 62368-1	EN50121-4 UL 61010 LVD 62368-1	NEMA TS2 EN50121-4 UL 61010 LVD 62368-1	NEMA TS2 EN50121-4 UL 61010 LVD 62368-1

✓ : supported, – : not supported, △ : optional

Industrial Ethernet Solutions

Managed Switches



Model Name		EKI-7710E-2C EKI-7710E-2CI	EKI-7710G-2C EKI-7710G-2CI	EKI-7712E-4F EKI-7712E-4FI	EKI-7712G-4F EKI-7712G-4FI	EKI-7716G-4F4CI	EKI-7720E-4F EKI-7720E-4FI	EKI-7720G-4F EKI-7720G-4FI	EKI-8510G-2FI
Description		8FE+2G Gigabit Managed Redundant Industrial Switch	8GbE+2G Gigabit Managed Redundant Industrial Switch/ with Wide Temperature	8FE+4SFP Gigabit Managed Redundant Industrial Switch/ with Wide Temperature	8GbE+4G SFP Gigabit Managed Redundant Industrial Switch/ with Wide Temperature	8GbE+4SFP + 4G Combo Managed Redundant Industrial Switch	16FE+4G SFP Gigabit Managed Redundant Industrial Switch/ with Wide Temperature	16GbE+4G SFP Gigabit Managed Redundant Industrial Switch/ with Wide Temperature	8G + 2G SFP Gigabit Managed Ethernet TSN Switch
Interface	Number of Ports	10	10	12	12	16	20	20	10
	10/100Base-T (X)	8	–	8	–	–	16	–	–
	100BaseFX	–	–	–	–	–	–	–	–
	10/100/1000Base-T (X)	2 (combo)	8 + 2 (combo)	–	8	8 + 4 (combo)	–	16	8
	1000Base-SX/LX/ LHX/XD/ZX/EZX	2 (combo)	2 (combo)	4	4	4 + 4 (combo)	4	4	2
	PoE (10/100 Mbps)	–	–	–	–	–	–	–	–
	PoE (10/100/1000 Mbps)	–	–	–	–	–	–	–	–
	DI/DO	–	–	–	–	–	–	–	–
Network Management	Console	✓	✓	✓	✓	✓	✓	✓	✓
	Redundancy	✓	✓	✓	✓	✓	✓	✓	✓
	Diagnostics	✓	✓	✓	✓	✓	✓	✓	✓
	VLAN	✓	✓	✓	✓	✓	✓	✓	✓
	Configuration	✓	✓	✓	✓	✓	✓	✓	✓
	SNMP	✓	✓	✓	✓	✓	✓	✓	✓
	Security	✓	✓	✓	✓	✓	✓	✓	✓
	Traffic Control	✓	✓	✓	✓	✓	✓	✓	✓
Power	TSN	–	–	–	–	–	–	–	✓
	IEEE 1588 V2	–	–	–	–	–	–	–	✓
	12~48 V _{DC}	✓	✓	✓	✓	✓	✓	✓	✓
	24~110 V _{DC}	–	–	–	–	–	–	–	–
	100~240 V _{AC}	–	–	–	–	–	–	–	–
	Relay Output	✓	✓	✓	✓	✓	✓	✓	✓
	DIN-rail Mount	✓	✓	✓	✓	✓	✓	✓	✓
	Wall Mount	✓	✓	✓	✓	✓	✓	✓	✓
Mechanism	Rack Mount	–	–	–	–	–	–	–	–
	IP Level	IP30	IP30	IP40	IP40	IP30	IP30	IP30	IP30
	ESD (Ethernet)	✓	✓	✓	✓	✓	✓	✓	✓
Protection	Surge (EFT for power)	✓	✓	✓	✓	✓	✓	✓	✓
	Power Reverse	✓	✓	✓	✓	✓	✓	✓	✓
Operating Temperature	-10 ~ 60°C (14 ~ 140°F)	EKI-7710E-2C	EKI-7710G-2C	EKI-7712E-4F	EKI-7712G-4F	–	EKI-7720E-4F	EKI-7720G-4F	–
	-40 ~ 75°C (-40 ~ 167°F)	EKI-7710E-2CI	EKI-7710G-2CI	EKI-7712E-4FI	EKI-7712G-4FI	EKI-7716G-4FI	EKI-7720E-4FI	EKI-7720G-4FI	EKI-8510G-2FI -40 ~ 65°C
	-40 ~ 85°C (-40 ~ 185°F)	–	–	–	–	–	–	–	–
Certifications	CE	✓	✓	✓	✓	✓	✓	✓	✓
	FCC	✓	✓	✓	✓	✓	✓	✓	✓
	UL/cUL 60950-1	–	–	–	–	–	–	–	–
	Class I, Division 2	–	–	–	–	–	–	–	–
	UL 508	✓	✓	✓	✓	✓	✓	✓	✓
	Others	NEMA TS2 EN50121-4 LVD 62368-1	NEMA TS2 EN50121-4 LVD 62368-1	NEMA TS2 EN50121-4 UL 61010 LVD 62368-1	NEMA TS2 EN50121-4 UL 61010 LVD 62368-1	NEMA TS2 EN50121-4 UL 61010 LVD 62368-1	NEMA TS2 EN50121-4 UL 61010 LVD 62368-1	NEMA TS2 EN50121-4 UL 61010 LVD 62368-1	NEMA TS2 EN50121-4 UL 62368-1

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Serial/USB Communications

Industrial Ethernet Solutions

Managed PoE Switches



Model Name		EKI-7708E-4FPI EKI-7708G-4FPI	EKI-7710E-2CPI EKI-7710G-2CPI	EKI-7712E-4FPI EKI-7712G-4FPI	EKI-7712G-4FMPI	EKI-7720G-4FPI
Description		4FE/4GbE+4SFP Managed Redundant Industrial PoE Switch	8FE+2SFP/4SFP Managed Redundant Industrial PoE Switch	8FE/8GbE+4SFP Managed Redundant Industrial PoE Switch	8GbE+4SFP Managed Redundant Industrial PoE Switch	16GbE+2SFP Managed Redundant Industrial PoE Switch
Interface	Number of Ports	8	10	12	12	20
	10/100Base-T (X)	–	–	–	–	–
	100BaseFX	–	–	–	–	–
	10/100/1000Base-T (X)	–	2 (combo)	–	–	–
	1000Base-SX/LX/ LHX/ XD/ZX/EZX	4	2 (combo)	4	4	4
	PoE (10/100 Mbps)	4 (EKI-7708E-4FPI)	8 (EKI-7710E-2CPI)	8 (EKI-7712E-4FPI)	–	–
	PoE (10/100/1000 Mbps)	4 (EKI-7708G-4FPI)	8 (EKI-7710G-2CPI)	8 (EKI-7712G-4FPI)	8	16
	DI/DO	–	–	–	–	–
Network Management	Console	✓	✓	✓	✓	✓
	Redundancy	✓	✓	✓	✓	✓
	Diagnostics	✓	✓	✓	✓	✓
	VLAN	✓	✓	✓	✓	✓
	Configuration	✓	✓	✓	✓	✓
	SNMP	✓	✓	✓	✓	✓
	Security	✓	✓	✓	✓	✓
	Traffic Control	✓	✓	✓	✓	✓
Power	12~48 V _{DC}	48 V _{DC}	✓	48 V _{DC}	53 ~ 57 V _{DC}	55 V _{DC}
	24~110 V _{DC}	–	–	–	–	–
	100~240 V _{AC}	–	–	–	–	–
	Relay Output	✓	–	✓	✓	✓
	Power Budget	120W	120W	240W	370W	420W
Mechanism	DIN-rail Mount	✓	✓	✓	✓	✓
	Wall Mount	✓	✓	✓	✓	✓
	Rack Mount	–	–	–	–	–
	IP Level	IP30	IP30	IP30	IP30	IP30
Protection	ESD (Ethernet)	✓	✓	✓	✓	✓
	Surge (EFT for power)	✓	✓	✓	✓	✓
	Power Reverse	✓	✓	✓	✓	✓
Operating Temperature	-10 ~ 60 °C (14 ~ 140 °F)	–	–	–	–	–
	-40 ~ 75 °C (-40 ~ 167 °F)	✓	✓	✓	✓	✓
	-40 ~ 85 °C (-40 ~ 185 °F)	–	–	–	–	–
Certifications	CE	✓	✓	✓	✓	✓
	FCC	✓	✓	✓	✓	✓
	UL/cUL 60950-1	–	–	–	–	–
	Class I, Division 2	–	–	–	–	–
	UL 508	–	✓	✓	–	–
	Others	NEMA TS2 EN 50121-4 LVD 62368-1 UL 61010	NEMA TS2 EN 50121-4 LVD 62368-1 UL 62368-1	NEMA TS2 EN 50121-4 LVD 62368-1 UL 61010	UL 62368-1 NEMA TS2 EN50121-4	UL 62368-1 NEMA TS2 EN50121-4

✓ : supported, – : not supported, △ : optional

Industrial Ethernet Solutions

Unmanaged PoE Switches



Model Name		EKI-2705E-1GPI	EKI-2705G-1GPI	EKI-2706E-1GFPI	EKI-2706G-1GPI	EKI-2706G-2GPI	EKI-2706G-2FPI	EKI-2708G-PI	EKI-2710G-2FPI	EKI-5729PI
Description		4FE PoE + 1GbE Unmanaged Industrial Switch	4GE PoE + 1GbE Unmanaged Industrial Switch	4FE PoE + 1GbE + 1G SFP Unmanaged Industrial Switch	4GE PoE + 1GbE + 1G SFP Unmanaged Industrial Switch	6GbE Unmanaged Industrial Switch	4GbE + 2G SFP Unmanaged Industrial Switch	8GbE Unmanaged Industrial Switch	8GbE+2G SFP Unmanaged Industrial Switch	8GbE PoE+2G Unmanaged Ethernet Switch, IEEE802.3af/at, E-Mark, 12V~24V _{DC}
Interface	Number of Ports	5	5	6	6	6	6	8	10	8
	10/100Base-T (X)	5	–	5	–	–	–	–	–	–
	100BaseFX	–	–	–	–	–	–	–	–	–
	10/100/1000Base-T (X)	–	5	–	5	6	4	8	8	–
	1000Base-SX/LX/LHX/XD/ZX/EZX	–	–	1	1	–	2 x SFP	–	2 x SFP	–
	PoE (10/100 Mbps)	4	–	4	–	4	4	8	8	–
	PoE (10/100/1000 Mbps)	–	4	–	4	–	–	–	–	8
	DI/DO	–	–	–	–	–	–	–	–	–
Network Management	Console	–	–	–	–	–	–	–	–	–
	Redundancy	–	–	–	–	–	–	–	–	–
	Diagnostics	–	–	–	–	–	–	–	–	–
	VLAN	–	–	–	–	–	–	–	–	–
	Configuration	–	–	–	–	–	–	–	–	–
	SNMP	–	–	–	–	–	–	–	–	–
	Security	–	–	–	–	–	–	–	–	–
	Traffic Control	–	–	–	–	–	–	–	–	–
Power	12~48 V _{DC}	–	–	–	–	✓	✓	✓	✓	–
	24~48 V _{DC}	✓	✓	✓	✓	–	–	–	–	–
	Relay Output	–	–	–	–	✓	✓	✓	✓	✓
Mechanism	DIN-rail Mount	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Wall Mount	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Rack Mount	–	–	–	–	–	–	–	–	–
	IP Level	IP30	IP30	IP30	IP30	IP30	IP30	IP30	IP30	IP30
Protection	ESD (Ethernet)	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Surge (EFT for power)	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Power Reverse	✓	✓	✓	✓	✓	✓	✓	✓	✓
Operating Temperature	-10 ~ 60 °C (14 ~ 140 °F)	–	–	–	–	–	–	–	–	✓
	-40 ~ 75 °C (-40 ~ 167 °F)	✓	✓	✓	✓	✓	✓	✓	✓	✓
	-40 ~ 85 °C (-40 ~ 185 °F)	–	–	–	–	–	–	–	–	–
	Others	–	–	–	–	EN 62368/ E-Mark	EN 62368/ E-Mark	EN 62368/ E-Mark compliance	EN 62368/ E-Mark compliance	UL 61010/ E-Mark
Certifications	CE	✓	✓	✓	✓	✓	✓	✓	✓	✓
	FCC	✓	✓	✓	✓	✓	✓	✓	✓	✓
	UL/cUL 60950-1	✓	✓	✓	✓	–	–	–	–	✓
	Class I, Division 2	–	–	–	–	–	–	–	–	–
	UL 508	–	–	–	–	–	–	–	–	–

✓ : supported, – : not supported, △ : optional

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Edge Software & Industry Solutions

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Intelligent HMI & Monitors

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Automation Computers

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Intelligent Systems

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Mission Critical CompactPCI Platforms

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Data Acquisition (DAQ) Solutions

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Remote I/O, Wireless I/O & Sensors

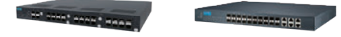
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Serial/USB Communications

Industrial Ethernet Solutions

L3 Managed Switches

IEC 61850-3 Managed Industrial Ethernet Switches



Model Name		EKI-8528-4XF	EKI-9728G-4X8CI	EKI-9628G-4CI	EKI-9612G-4FI
Description		L3 modular Managed Switch	L3 28-port Managed Switch	L3 28-port Managed Switch	L3 12-port Managed Switch
Interface	Number of Ports	Up to 28	28	28	12
	10/100Base-T (X)	–	–	–	–
	100BaseFX	–	–	–	–
	10/100/1000Base-T (X)	3 x 8 port module slots + 4 x SFP+(10G)	16+8 (combo)	24+4 (combo)	8
	1000Base-SX/LX/LHX/XD/ZX/EZX		8 (combo) + 4 x SFP+ (10G)	4 (combo)	4 x SFP
	PoE (10/100 Mbps)	–	–	–	–
	PoE (10/100/1000 Mbps)	–	–	–	–
	HSR/PRP	△	–	–	–
Network Management	Console	✓	✓	✓	✓
	Redundancy	✓	✓	✓	✓
	Diagnostics	✓	✓	✓	✓
	VLAN	✓	✓	✓	✓
	Configuration	✓	✓	✓	✓
	SNMP	✓	✓	✓	✓
	Security	✓	✓	✓	✓
	TSN	✓	–	–	–
Power	IEEE 1518 V2	✓	–	–	–
	Traffic Control	✓	✓	✓	✓
	12~48 V _{DC}	△ 24~48 V _{DC}	–	✓	✓
	24~110 V _{DC}	△ 88~370 V _{DC}	–	–	–
Mechanism	100~240 V _{AC}	△ 100~264 V _{AC}	90~264 V _{AC}	–	–
	Relay Output	✓	–	✓	✓
	DIN-rail Mount	–	–	–	✓
	Wall Mount	–	–	–	✓
Protection	Rack Mount	✓	✓	✓	–
	IP Level	IP30	IP30	IP30	IP30
	ESD (Ethernet)	✓	✓	✓	✓
Operating Temperature	Surge (EFT for power)	✓	✓	✓	✓
	Power Reverse	✓	✓	✓	✓
	-10 ~ 60°C (14 ~ 140°F)	–	–	–	–
Certifications	-40 ~ 75 °C (-40 ~ 167 °F)	✓	–	✓	✓
	-40 ~ 85 °C (-40 ~ 185 °F)	–	✓	–	–
	CE	✓	✓	✓	✓
	FCC	✓	✓	✓	✓
Others	UL/cUL 60950-1	–	–	–	–
	Class I, Division 2	–	–	–	–
	UL 61010	–	–	✓	✓
	EN 50121-4 IEC 61850-3	–	–	LVD 62368-1	NEMA TS2 EN 50121-4 LVD 62368-1

✓ : supported, – : not supported, △ : optional

Model Name		EKI-7528-4XF	EKI-9226G-20FOI EKI-9226G-20FMI
Description		28-port Full Giga Managed Switch	26-port Full Giga Managed Switch
Interface	Number of Ports	Up to 28	26
	10/100Base-T (X)	–	–
	100BaseFX	–	–
	10/100/1000Base-T (X)	3 x 8 port module slots + 4 x SFP+ (10G)	6
	1000Base-SX/LX/LHX/XD/ZX/EZX		20 x SFP
	PoE (10/100 Mbps)	–	–
	PoE (10/100/1000 Mbps)	–	–
	HSR/PRP	△	–
Network Management	Console	✓	✓
	Redundancy	✓	✓
	Diagnostics	✓	✓
	VLAN	✓	✓
	Configuration	✓	✓
	SNMP	✓	✓
	Security	✓	✓
	Traffic Control	✓	✓
Power	12~48 V _{DC}	–	EKI-9226G-20FMI (48 V _{DC})
	24~110 V _{DC}	–	–
	100~240 V _{AC}	✓	EKI-9226G-20FOI (90~264 V _{AC})
	Relay Output	✓	✓
Mechanism	DIN-rail Mount	–	–
	Wall Mount	–	–
	Rack Mount	✓	✓
	IP Level	IP30	IP30
Protection	ESD (Ethernet)	✓	✓
	Surge (EFT for power)	✓	✓
	Power Reverse	✓	✓
Operating Temperature	-10 ~ 60°C (14 ~ 140°F)	–	–
	-40 ~ 75 °C (-40 ~ 167 °F)	✓	–
	-40 ~ 85 °C (-40 ~ 185 °F)	–	✓
Certifications	CE	✓	✓
	FCC	✓	✓
	UL/cUL 60950-1	–	✓
	Class I, Division 2	–	–
Others	UL 508	–	–
	EN 50121-4 IEC 61850-3	–	IEC 61850-3

✓ : supported, – : not supported, △ : optional

Industrial Ethernet Solutions

EN50155 Switches



Model Name		EKI-9512E-ETB EKI-9512G-ETB	EKI-9528 series	EKI-9516 series	EKI-9512 series	EKI-9510 series	EKI-9508 series
Description		EN50155 12-Port Ethernet Train Backbone Router	EN50155 28-Port L2 Managed (PoE) Switch	EN50155 16-Port L2 Managed (PoE) Switch	EN50155 12-Port L2 Managed PoE Switch	EN50155 10-Port L2 Managed (PoE) Switch	EN50155 8-Port L2 Managed (PoE) Switch
Interface	Number of Ports	12	28	16	12	10	8
	10/100Base-TX	Up to 8	Up to 20	Up to 12	Up to 8	Up to 8	Up to 8
	100BaseFX	–	–	–	–	–	–
	10/100/1000Base-TX	Up to 12	Up to 28	Up to 16	Up to 12	Up to 8	Up to 8
	10/100/1000Base-TX with Bypass Function	4	Up to 4	Up to 4	Up to 4	2	–
	PoE(10/100Mbps)	–	Up to 24	Up to 12	Up to 8	Up to 8	Up to 8
	PoE(10/100/1000Mbps)	–	Up to 24	Up to 12	Up to 8	Up to 8	Up to 8
	DI/DO	–	–	–	–	–	–
Network Management	Console	✓	✓	✓	✓	✓	✓
	Redundancy	✓	✓	✓	✓	✓	✓
	Diagnostics	✓	✓	✓	✓	✓	✓
	VLAN	✓	✓	✓	✓	✓	✓
	Configuration	✓	✓	✓	✓	✓	✓
	SNMP	✓	✓	✓	✓	✓	✓
	Security	✓	✓	✓	✓	✓	✓
Power	Traffic Control	✓	✓	✓	✓	✓	✓
	24~110 V _{DC}	✓	✓	✓	✓	✓	✓
Rolling Stock Application	IP Rating	IP30	IP54	IP67	IP67	IP67	IP67
	Ethernet Train Backbone (IEC61375-2-3 & -2-5)	✓	–	–	–	–	–
	EN50155	✓	✓	✓	✓	✓	✓
	EN50121-3-2	✓	✓	✓	✓	✓	✓
	EN61373	✓	✓	✓	✓	✓	✓
	EN45545-2	✓	✓	✓	✓	✓	✓

✓ : supported, – : not supported, △ : optional

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Edge Software & Industry Solutions

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Intelligent HMI & Monitors

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Mission Critical CompactPCI Platforms

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Data Acquisition (DAQ) Solutions

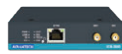
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Remote I/O, Wireless I/O & Sensors

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Serial/USB Communications

Industrial Cellular Routers



Model Series		ICR-2000	ICR-2400	ICR-2500	ICR-2600	ICR-2700 LAN	ICR-2700	ICR-2800
Region	GLOBAL	–	–	–	–	✓	–	–
	EMEA	✓	✓	✓	✓	✓	✓	✓
	NAM	✓	–	–	–	–	–	–
	LATAM	✓	✓	–	–	–	–	–
	BRAZIL	✓	✓	–	–	–	–	–
	AUS/NZ	–	–	–	–	–	–	–
	JAPAN	–	–	–	–	–	–	–
Mobile Wireless Network Technology	KOREA	–	–	–	–	–	–	–
	5G	–	–	–	–	–	–	–
	LTE Cat.12	–	–	–	–	–	–	–
	LTE Cat.6	–	–	–	–	–	–	–
	LTE Cat.4	✓	✓	✓	✓	–	✓	✓
	LTE-M/NB-IOT	–	✓	–	–	–	–	–
	LTE 450	–	✓	–	–	–	–	–
Communications Interfaces and Expansions	Without Cellular	–	–	–	–	✓	–	–
	3G/HSPA+	✓	✓	✓	✓	–	✓	✓
	GPRS/EDGE	✓	✓	✓	✓	–	✓	✓
	Wi-Fi Type	△ 2.4/5 GHz	△ 2.4/5 GHz	△ 2.4/5 GHz	△ 2.4/5 GHz	△ 2.4/5 GHz	△ 2.4/5 GHz	△ 2.4/5 GHz
	Bluetooth	–	–	–	–	–	–	–
	GNSS Receiver	–	Optional	–	–	–	–	△
	PoE PSE+ / PoE PD	–	–	–	–	–	–	–
	ETH	1	2	4	4	2	2	2
	USB	–	–	–	–	✓	✓	✓
	RS232	–	1	–	1	–	–	1-2
	RS485	–	1	–	1	–	–	1-2
	RS485/422	–	–	–	–	–	–	–
Hardware	SFP Cage	–	–	–	–	–	–	–
	CAN	–	–	–	–	–	–	–
	I/O	1x DI + 1x DO	1x DI + 1x DO	1x DI + 1x DO	1x DI + 1x DO	–	–	4x DI + 2x DO
	MicroSD	–	–	–	–	–	–	–
	CPU Power (MHz)	600	600	600	600	600	600	600
	Memory - RAM (MB)	128 MB	128 MB	128 MB	128 MB	128 MB	128 MB	128 MB
	NOR Flash, Flash, eMMC	64 MB	64 MB	64 MB	64 MB	4 GB	4 GB	4 GB
	Customer Data	2 MB	2 MB	2 MB	2 MB	512 MB	512 MB	512 MB
	Router Apps (MB)	12 MB	12 MB	12 MB	12 MB	838 MB	838 MB	838 MB
Design	Number of SIM Slots	1	2	2	2	–	2	2
	Power Supply	9~48 V _{DC}	9~48 V _{DC}	9~48 V _{DC}	9~48 V _{DC}	9~48 V _{DC}	9~48 V _{DC}	9~48 V _{DC}
	Operating Temperature	-40 ~ 75°C (-40 ~ 167°F)	-40 ~ 75°C (-40 ~ 167°F)	-40 ~ 75°C (-40 ~ 167°F)	-40 ~ 75°C (-40 ~ 167°F)	-40 ~ 75°C (-40 ~ 167°F)	-40 ~ 75°C (-40 ~ 167°F)	-40 ~ 75°C (-40 ~ 167°F)
	Type of Housing	Metal	Metal	Metal	Metal	Plastic / Metal	Plastic / Metal	Plastic / Metal
Additional Software Support	Metal Casing (mm)	25 x 95 x 103	25 x 95 x 103	25 x 95 x 130	25 x 95 x 130	42 x 80.3 x 113.2	42 x 80.3 x 113.2	42 x 80.3 x 113.2
	Plastic Casing (mm)	–	–	–	–	51.4 x 83.8 x 115.5	51.4 x 83.8 x 115.5	51.4 x 83.8 x 115.5
	DIN Holder TS35/TS32	DIN, wall	DIN, wall	DIN, wall	DIN, wall	DIN	DIN	DIN
Additional Software Support	Router Apps	✓	✓	✓	✓	✓	✓	✓
	WebAccess/DMP Preactivated	✓	✓	✓	✓	✓	✓	✓
	Python, C++	✓	✓	✓	✓	✓	✓	✓
	*Docker, Node-RED	–	–	–	–	–	–	–

✓ : supported, – : not supported, △ : optional

*Functionality is available with the installed Router App. Please check the size of the free memory reserved for Router Apps before installation.

Industrial Cellular Routers



	Model Series	SmartStart	SmartFlex LAN	SmartFlex	ICR-3200 LAN	ICR-3200
Region	GLOBAL	–	✓	✓	✓	✓
	EMEA	✓	–	✓	–	✓
	NAM	–	–	✓	–	✓
	LATAM	–	–	✓	–	✓
	BRAZIL	–	–	–	–	✓
	AUS/NZ	–	–	–	–	✓
	JAPAN	–	–	✓	–	–
	KOREA	–	–	✓	–	–
Mobile Wireless Network Technology	5G	–	–	–	–	–
	LTE Cat.12	–	–	–	–	–
	LTE Cat.6	–	–	–	–	–
	LTE Cat.4	✓	–	✓	–	✓
	LTE-M/NB-IOT	–	–	–	–	✓
	LTE 450	–	–	–	–	–
	Without Cellular	–	✓	–	✓	–
	3G/HSPA+	✓	–	✓	–	✓
Communications Interfaces and Expansions	GPRS/EDGE	✓	–	✓	–	✓
	Wi-Fi Type	–	△ 2.4/5 GHz	△ 2.4/5 GHz	△ 2.4/5 GHz	△ 2.4/5 GHz
	Bluetooth	–	–	–	△ 5.1, Low Energy	△ 5.1, Low Energy
	GNSS Receiver	–	–	✓	–	△
	PoE PSE+ / PoE PD	–	△	△	–	–
	ETH	1	5	up to 5	2	2
	USB	–	✓	✓	–	–
	RS232	1	–	△	1	1
	RS485	–	–	△ 1/2	1	1
	RS485/422	–	–	△	–	–
	SFP Cage	–	–	–	–	–
	CAN	–	–	–	–	–
Hardware	I/O	1x DI + 1x DO	2x DI + 1x DO	2x DI + 1x DO	1x DI + 1x DO	1x DI + 1x DO
	MicroSD	–	✓	✓	–	–
	CPU Power (MHz)	1000	1000	1000	1000	1000
	Memory - RAM (MB)	512 MB	512 MB	512 MB	512 MB	512 MB
	NOR Flash, Flash, eMMC	4 GB	256 MB	256 MB	4 GB	4 GB
	Customer Data	512 MB	128 kB	128 kB	512 MB	512 MB
	Router Apps (MB)	838 MB	128 MB	128 MB	838 MB	838 MB
	Number of SIM Slots	2	–	2	–	2
	Power Supply	9~36 V _{DC}	10~60 V _{DC}	10~60 V _{DC}	9~36 V _{DC}	9~36 V _{DC}
	Operating Temperature	-25 ~ 55°C (-13 ~ 131°F)	-40 ~ 75°C (-40 ~ 167°F)	-40 ~ 75°C (-40 ~ 167°F)	-40 ~ 75°C (-40 ~ 167°F)	-40 ~ 75°C (-40 ~ 167°F)
Design	Type of Housing	Plastic	Plastic / Metal	Plastic	Metal	Metal
	Metal Casing (mm)	30 x 87 x 150	55 x 97 x 125	55 x 97 x 125	31 x 94 x 129	31 x 94 x 129
	Plastic Casing (mm)	–	55 x 97 x 125	55 x 97 x 125	–	–
Additional Software Support	DIN Holder TS35/TS32	DIN, wall	DIN	DIN	DIN, wall	DIN, wall
	Router Apps	✓	✓	✓	✓	✓
	WebAccess/DMP Preactivated	✓	✓	✓	✓	✓
	Python, C++	✓	✓	✓	✓	✓
	*Docker, Node-RED	✓	✓	✓	✓	✓

✓ : supported, – : not supported, △ : optional

*Functionality is available with the installed Router App. Please check the size of the free memory reserved for Router Apps before installation.

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Serial/USB Communications

Industrial Cellular Routers



Model Series		ICR-4400 LAN	ICR-4400	ICR-4100	ICR-4200	ICR-1642
Region	GLOBAL	✓	✓	△	△	–
	EMEA	–	✓	✓	✓	✓
	NAM	–	✓	–	–	–
	LATAM	–	–	–	–	–
	BRAZIL	–	–	–	–	–
	AUS/NZ	–	–	–	–	–
	JAPAN	–	–	–	–	–
	KOREA	–	–	–	–	–
Mobile Wireless Network Technology	CHINA	–	–	–	–	✓
	5G	–	✓	✓	✓	–
	LTE Cat.12	–	✓	–	–	–
	LTE Cat.6	–	–	✓	✓	–
	LTE Cat.4	–	–	–	–	✓
	LTE-M/NB-IOT	–	–	–	–	–
	LTE 450	–	–	–	–	–
	Without Cellular	–	–	–	–	–
Communications Interfaces and Expansions	3G/HSPA+	–	✓	–	–	–
	GPRS/EDGE	–	–	–	–	–
	Wi-Fi Type	△ 2.4/5 GHz	△ 2.4/5 GHz	△ WIFI6 2.4/5/6 GHz	△ WIFI6 2.4/5/6 GHz	–
	Bluetooth	–	–	–	–	–
	GNSS Receiver	–	△	✓	✓	–
	PoE PSE+ / PoE PD	△ PoE PSE+	△ PoE PSE+	–	–	–
	ETH	5	5	2	2	2
	USB	✓	✓	✓	✓	–
	RS232	1	1	–	1-2	1
	RS485	1	1	–	1-2	1
	RS485/422	–	–	–	–	–
	SFP Cage	1	1	–	–	–
Hardware	CAN	1	1	–	–	–
	I/O	2x DI + 2x DO	2x DI + 2x DO	–	4x DI + 2x DO	1x DI + 1x DO
	MicroSD	✓	✓	✓	✓	–
	CPU Power (MHz)	1200	1200	1600	1600	1200
	Memory - RAM (MB)	1 GB	1 GB	1 GB	1 GB	256 MB
	NOR Flash, Flash, eMMC	4 GB	4 GB	8 GB	8 GB	512 MB
	Customer Data	512 MB	512 MB	3.35 GB	3.35 GB	33 MB
	Router Apps (MB)	838 MB	838 MB	–	–	80 MB
	Number of SIM Slots	–	2	2	2	2
	Power Supply	9~48 V _{DC}	9~48 V _{DC}	9~48 V _{DC}	9~48 V _{DC}	9~48 V _{DC}
Design	Operating Temperature	-40 ~ 75°C (-40 ~ 167°F)	-40 ~ 75°C (-40 ~ 167°F)	-40 ~ 75°C (-40 ~ 167°F)	-40 ~ 75°C (-40 ~ 167°F)	-40 ~ 75°C (-40 ~ 167°F)
	Type of Housing	Metal	Metal	Metal	Metal	Metal
	Metal Casing (mm)	47 x 109 x 195	47 x 109 x 195	43 x 130 x 90	43 x 130 x 90	94 x 90 x 39
	Plastic Casing (mm)	–	–	–	–	–
Additional Software Support	DIN Holder TS35/TS32	DIN, wall	DIN, wall	DIN, wall	DIN, wall	DIN, wall
	Router Apps	✓	✓	✓	✓	△
	WebAccess/DMP Preactivated	✓	✓	✓	✓	✓
	Python, C++	✓	✓	✓	✓	–
	*Docker, Node-RED	✓	✓	✓	✓	–

✓ : supported, – : not supported, △ : optional

*Functionality is available with the installed Router App. Please check the size of the free memory reserved for Router Apps before installation.

Industrial Wireless Access Points/Clients

Wireless Access Points/Clients



Model Name		EKI-6333AC-2G	EKI-6333AC-4GP
Description		Industrial IEEE 802.11 Ind. 802.11 a/b/g/n/ac Wi-Fi AP/Client	Industrial IEEE 802.11 a/b/g/n/ac Wi-Fi AP with PoE PSE
Connectivity	10/100/1000Based-T, Fixed	2	–
	10/100Base-TX, Fixed	–	4
	RS-232 Only	–	–
	RS-232/422/485	–	1x RS-232/RS-485
	Serial Connector Type	–	Terminal Block Male
Enclosure & Mount Kit	Enclosure	IP55	–
	DIN-rail	–	✓
	Wall	✓	–
	VESA Mount	–	–
	Pole Mount	✓	–
Power	Power Input (V _{DC})	–	24~56 V _{DC}
	Power Input (PoE)	Passive 24V	PoE 802.3at PSE
	Power Connector	RJ-45	Terminal block
Environment	Operating Temperature	-20 ~ 70°C (-4 ~ 158°F)	-30 ~ 70°C (-22 ~ 158°F)
	Operating Humidity	10~95%	10~95%
Software	Configuration Options	Web-base	Web-base
	Authentication	Username/Password	Username/Password
	Standard Operation Mode	Access Point, Client, Repeater mode	Access Point/Bridge mode
WLAN	IEEE Standard	a/b/g/n/ac	a/b/g/n/ac
	Radio Number	2	2
	Security	WEP, WPA/WPA2-Perso-I, WPA/WPA2-Enterprise	–
RF	Frequency	2.4G/5GHz	2.4G/5GHz
	MIMO	2T2R	2T2R
	UL60950-1	–	–

✓ : supported, – : not supported, △ : optional

* Note: Transmit Output Power & Receive Sensitivity are specified on data sheet.

Model Name		EKI-1361 EKI-1362 EKI-6233BN	EKI-6333AC-2GD
Description		0/1/2-port RS-232/422/485 to 802.11b/g/n WLAN Serial Device Server	IEEE 802.11 a/b/g/n/ac Wi-Fi AP
Connectivity	10/100/1000Based-T, Fixed	–	✓
	10/100Base-TX, Fixed	✓	–
	RS-232 Only	–	–
	RS-232/422/485	✓	–
	Serial Connector Type	DB9 Male	–
Enclosure & Mount Kit	Enclosure	IP30	IP30
	DIN-rail	✓	✓
	Wall	✓	✓
	VESA Mount	–	–
	Pole Mount	–	–
Power	Power Input (V _{DC})	12~48 V _{DC}	12~48 V _{DC}
	Power Input (PoE)	–	–
	Power Connector	Terminal block	Terminal block
Environment	Power Consumption (12/24/48 V _{DC} Watts)	8W (EKI-1361) 9W (EKI-1362)	8W
	Operating Temperature	-40 ~ 75°C (-40 ~ 167°F)	-40 ~ 75°C (-40 ~ 167°F)
	Operating Humidity	10~95%	10~95%
Software	Input Reverse Protection	✓	✓
	Configuration Options	Web-base, windows utility	Web-base
	Authentication	Username/Password	Username/Password
WLAN	Standard Operation Mode	VCOM, USDG mode (TCP/UDP server, TCP/UDP client), Station Mode	Access Point
	IEEE Standard	a/b/g/n	a/b/g/n/ac
	Radio Number	1	1
RF	Security	WEP, WPA/WPA2-Personal, WPA/WPA2-Enterprise	WEP, WAP/WAP2-Persona, WAP/WAP2-Enterprise
	MIMO	2T2R	2T2R
	Maximum Transmit Output Power	19dBm (11n)	19dBm (11n)
	Receive Sensitivity	-93dBm (11g Rx0+Rx1)	-93dBm (11g Rx0+Rx1)
Antenna Connector		R-SMA	R-SMA

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Serial/USB Communications

Industrial Wireless Access Points/Clients



Model Name		ABDNA-ER-IN5010	ABDNA-ER-DP551(U)	BB-WLNN-ER-DP551 BB-WLNN-AN-DP551 BB-WLNN-SE-DP551 BB-WLNN-Q551 BB-WLNN-EK-DP551	ABDNA-ER-DP553
Category		Industrial (Metal)	Enterprise (Compact, Saddle holster)	OEM & Modules Open Board	OEM & Modules Carrier Board
Types		Bridge & Router	Bridge & Router	Interfaces(UART), Ethernet Adapter, RS232/422/485 Driver Control	Serial Server, Access Point/ Client
Connectivity	10/100Base-T	✓	✓	✓	✓
	RS-232/422/485	-	-	UART w/ Serial Driver Control (WLNN-SE-DP551/BB-WLNN-EK-DP551)	-
Enclosure & Mount Kit	Dimension (W x H x D)	12.1 x 12.0 x 2.9 cm	6.1 x 9.9 x 3.2 cm	3.0 x 1.4 x 4.1 cm	9.0 x 4.6 x 2.2 cm
	Enclosure	Metal	Plastics	Module	Module
	DIN-rail	△	-	-	-
	Wall	-	✓	-	-
	Panel	✓	-	-	-
	Desktop	-	✓	-	-
Power	Power Input (V _{DC})	5~36 V _{DC}	5V _{DC}	3.3V _{DC}	5V _{DC}
	Power Connector	2-position terminal block, 2.1mm barrel jack	USB (2 open USB ports required; dual USB port power cable included)	36-pin high density SMT connector (Hirose DF12-36)	3A, 15W power supply with US power cord
Environment	Operating Temperature	-30 ~ 85°C (-22 ~ 185°F)	-20 ~ 85°C (-4 ~ 185°F)	-30 ~ 85°C (-22 ~ 185°F)	-20 ~ 85°C (-4 ~ 185°F)
	Operating Humidity	10~95% (non-condense)	10~95% (non-condense)	10~95% (non-condense)	10~95% (non-condense)
Software	Configuration Options	Web-based	Web-based	Web-based	Web-based
	Authentication	Username/Password	Username/Password	Username/Password	Username/Password
	Fast Roaming	✓	✓	✓	✓
	Command Line Interface (ASCII)	✓	✓	✓	✓
	Protocols	TCP/IP, ARP, ICMP, DHCP, DHS, UDAP, TFTP, UDP, PING, HTTP, FTP	TCP/IP, ARP, ICMP, DHCP, DHS, UDAP, TFTP, UDP, PING	TCP/IP, ARP, ICMP, DHCP, DHS, UDAP, TFTP, UDP, PING	TCP/IP, ARP, ICMP, DHCP, DHS, UDAP, TFTP, UDP, PING
WLAN	IEEE Standard	802.11a/b/g/n	802.11a/b/g/n	802.11a/b/g/n	802.11a/b/g/n
	Frequency Range	2.4/5 GHz (Dual Band)	2.4/5 GHz (Dual Band)	2.4/5 GHz (Dual Band)	2.4/5 GHz (Dual Band)
	Security	801.11i, WPA2, EAP, LEAP, WEP, SSH, SSL, TLS1.2, others	801.11i, WPA2, EAP, LEAP, WEP, SSH, SSL, TLS1.2, others	801.11i, WPA2, EAP, LEAP, WEP, SSH, SSL, TLS1.2, others	801.11i, WPA2, EAP, LEAP, WEP, SSH, SSL, TLS1.2, others
RF	Maximum Transmit Output Power	16dBm(11b/g/n)	15dBm(11b/g/n)	17dBm(11b)	15dBm(11b/g/n)
	Receive Sensitivity	-88dBm(11b)	-88dBm(11b)	-88dBm(11b)	-88dBm(11b)
	Antenna Connector	RP-SMA	RP-SMA	RP-SMA	RP-SMA
Part Number Details		ABDNA-ER-IN5010	ABDNA-ER-DP551 (AC Power Supply included with NATAM cable) ABDNA-ER-DP551U (Dual USB port power cable included)	BB-WLNN-ER-DP551 (Ethernet adapter) BB-WLNN-AN-DP551 (UART interface) BB-WLNN-SE-DP551 (232/422/485 driver control) BB-WLNN-Q551 (Access Point) BB-WLNN-EK-DP551 (Design/Development Kit)	ABDNA-ER-DP553 (No enclosure type) ABDNA-ER-DP551

✓ : supported, - : not supported, △ : optional

Industrial Wireless Access Points/Clients

EN50155 Wireless Devices



Model Name		EKI-6333AC-M12	EKI-1652WT
Description		EN50155 IEEE 802.11 a/b/g/n/ac Wi-Fi AP/Client	Wi-Fi/Cellular Router
Connectivity	10/100/1000Base-T, Fixed	△2 (M12 Connector)	△2 (M12 Connector)
	10/100Base-TX, Fixed		
	RS-232 Only	—	—
	RS-232/422/485	—	—
	Serial Connector Type	—	—
Enclosure & Mount Kit	Enclosure	Metal shell with solid mounting kits	Metal shell with solid mounting kits
	DIN-rail	—	—
	Wall	✓	✓
	VESA Mount	—	—
	Pole Mount	—	—
Power	Power Input (V _{DC})	24~48 V _{DC} (LV model), 72/96/110V _{DC} (HV model)	24~48 V _{DC} (LV model), 72/96/110V _{DC} (HV model)
	Power Input (PoE)	—	—
	Power Connector	M12 A-Code male (5-pin)	M12 A-Code male (5-pin)
Environment	Operating Temperature	-20 ~ 60°C (-4 ~ 140°F)	-20 ~ 60°C (-4 ~ 140°F)
	Operating Humidity	10~95%	10~95%
Software	Configuration Options	Web-based	Web-based
	Authentication	Username/Password	Username/Password
	Standard Operation Mode	Access Point/Bridge/Client mode	Access Point/Bridge/Client mode
WLAN	IEEE Standard	a/b/g/n/ac	a/b/g/n/ac
	Radio Number	2	2
	Security	Open System, Shared Key, Legacy 802.1X, WPA/WPA2, WPA-PSK (TKIP), WPA2-PSK(AES)	Open System, Shared Key, Legacy 802.1X, WPA/WPA2, WPA-PSK (TKIP), WPA2-PSK(AES)
RF	Frequency	2.4/5GHz	2.4/5GHz
	MIMO	2T2R	2T2R
	UL60950-1	—	—

✓ : supported, — : not supported, △ : optional

Model Name		EKI-9502G
Description		EN50155 Train-To-Ground Wi-Fi/Cellular Router
Connectivity	10/100Base-TX, Fixed	—
	10/100/1000 Based-T, Fixed	2
	RS-232 Only	—
	RS-232/422/485	2
	Serial Connector Type	Terminal block male
Enclosure & Mount Kit	Enclosure	Metal shell with solid mounting kits
	DIN-rail	—
	Wall	✓
	VESA Mount	—
Power	Pole Mount	—
	Power Input (V _{DC})	24-110 V _{DC}
	Power Input (PoE)	—
Environment	Power Connector	M12 A-coded with (4-pin)
	Operating Temperature	-40 ~ 70°C (-40 ~ 158°F)
Software	Operating Humidity	10~95%
	Network Protocol	IPv4, TCP/IP, UDP, ARP
	Firewall	✓
	Router	NAT/PAT, Firewall, QoS, Static Route, Port Forwarding, DMZ, IPSec/PPTP/L2TP passthrough, OpenVPN Server/Client, GRE
	Protocol	DHCP Server, DHCP Client, DNS Proxy
	Management	HTTP, Telnet, SSH, System Log, E-mail, SMS, SNMP
	Configuration Options	Web-based
	Authentication	Authentication (X.509 certificate, Pre-shared key, PW)
	Standard Operation Mode	Access Point/Client mode
	IEEE Standard	802.11 a/b/g/n/ac
WLAN	Radio Number	up to 2 (module type design)
	Security	Open System, Shared Key, Legacy 802.1X
RF	Frequency	2.4/5GHz
	MIMO	3T3R
WAN	LTE	Cat 4/6/12 (base on LTE module type)
	Radio Number	Up to 4 (Module type design)
	SIM Card Slot	8

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Industrial Media Converters

IMC-300

Miniature Media Converters



Featuring an ultra-compact design, these miniature media converters fit almost every corner of your application.

- Dimension (W x H x D) 4.57 x 2.11 x 8.51 cm (1.80 x 0.83 x 3.35 in)
Measuring only 3.5 x 2 inches
- Supports Link Fault Pass Through (LFPT)
- The centralized powered chassis allows for multiple Advantech miniature media converters sharing a central power source in one chassis

Industrial Grade 10/100Mbps Miniature Media Converters with PoE-PD

Model Name	Optical Mode	Fiber Cable Type	Typical Distance	Optical Connector	Operating Temperature	PoE	Sensitivity (dB)	Typical (nm)	TX Range (nm)	RX Range (nm)	TX Range (dBm)	RX Range (dBm)	Link Budget (dBm)	Dispersion Penalty (dB)
IMC-350I-M8	Multi-mode	OM1/OM2	2 km	SC duplex	-25 ~ 85°C (-13 ~ 185°F)	PD	-24	850	830~860	770 ~ 860	-10~-4	-3~-24	14	1
IMC-350I-M8ST	Multi-mode	OM1/OM2	2 km	ST duplex	-25 ~ 85°C (-13 ~ 185°F)	PD	-24	850	830~860	780 ~ 860	-10~-4	-3~-24	14	1
IMC-350I-MM	Multi-mode	OM1/OM2	4 km	SC duplex	-25 ~ 85°C (-13 ~ 185°F)	PD	-32	1300	1270~1380	1270~1380	-23.5~-14	-8~-32	8.5	3
IMC-350I-MMST	Multi-mode	OM1/OM2	4 km	ST duplex	-25 ~ 85°C (-13 ~ 185°F)	PD	-32	1300	1270~1380	1270~1380	-23.5~-14	-8~-32	8.5	3
IMC-350I-SE	Single-mode	G.652	40 km	SC duplex	-25 ~ 85°C (-13 ~ 185°F)	PD	-34	1310	1261~1360	1261~1360	-15~-8	-5~-34	19	1
IMC-350I-SL	Single-mode	G.652	80 km	SC duplex	-25 ~ 85°C (-13 ~ 185°F)	PD	-34	1550	1520~1580	1260~1600	-6~0	-3~-36	30	1
IMC-350I-SST	Bi-Directional	G.652	20 km	Single SC	-25 ~ 85°C (-13 ~ 185°F)	PD	-32	1310Tx / 1550Rx	1260~1360	1480~1580	-14~-8	-3~-32	18	1
IMC-350I-SSR	Bi-Directional	G.652	20 km	Single SC	-25 ~ 85°C (-13 ~ 185°F)	PD	-32	1550Tx / 1310Rx	1480~1580	1260~1360	-14~-8	-3~-32	18	1
IMC-350I-SFP	—	—	—	—	-25 ~ 85°C (-13 ~ 185°F)	PD	—	—	—	—	—	—	—	—

Industrial Grade 10/100/1000Mbps Miniature Media Converters

Model Name	Optical Mode	Fiber Cable Type	Typical Distance	Optical Connector	Operating Temperature	PoE	Sensitivity (dB)	Typical (nm)	TX Range (nm)	RX Range (nm)	TX Range (dBm)	RX Range (dBm)	Link Budget (dBm)	Dispersion Penalty (dB)
IMC-370I-MM	Multi-mode	OM1/OM2	550 m	SC duplex	-25 ~ 75°C (-13 ~ 167°F)	—	-17	850	830~860	770~860	-9.5~-4	-3~-17	7.5	—
IMC-370I-SM	Single-mode	G.652	10 km	SC duplex	-25 ~ 75°C (-13 ~ 167°F)	—	-20	1310	1260~1360	1260~1360	-9.5~-3	-3~-20	10.5	—
IMC-370I-SE	Single-mode	G.652	40 km	SC duplex	-25 ~ 75°C (-13 ~ 167°F)	—	-21	1310	1280~1340	1100~1600	-2~-3	-3~-23	21	3
IMC-370I-SST	Bi-Directional	G.652	10 km	Single SC	-25 ~ 75°C (-13 ~ 167°F)	—	-21	1310Tx / 1550 Rx	1270~1355	1480~1580	-9~-3	-2~-21	12	—
IMC-370I-SSR	Bi-Directional	G.652	10 km	Single SC	-25 ~ 75°C (-13 ~ 167°F)	—	-21	1550Tx / 131 Rx	1530~1570	1260~1360	-9~-3	-2~-21	12	—
IMC-370I-SFP	—	—	—	—	-25 ~ 75°C (-13 ~ 167°F)	—	—	—	—	—	—	—	—	—

PoE+ / PoE Media Converters

1 Gbps PoE & PoE+ Media Converters w/ 2 x RJ-45

Model Name	Optical Mode	Fiber Cable Type	Typical Distance	Optical Connector	Operating Temperature	PoE	Sensitivity (dB)	Typical (nm)	TX Range (nm)	RX Range (nm)	TX Range (dBm)	RX Range (dBm)	Link Budget (dBm)	Dispersion Penalty (dB)
IMC-390-MM	Multi-mode	OM1/OM2	550 m	SC duplex	0 ~ 70°C (32 ~ 158°F)	PSE	-17	850	830~860	770~860	-9.5~-4	-3~ 17	7.5	—
IMC-390-SM	Single-mode	G.652	10 km	SC duplex	0 ~ 70°C (32 ~ 158°F)	PSE	-20	1310	1260~1360	1260~1360	-9.5~-3	-3~-20	1 0.5	—
IMC-390-SFP	—	—	—	—	0 ~ 70°C (32 ~ 158°F)	PSE	—	—	—	—	—	—	—	—

✓ : supported, — : not supported, △ : optional

Industrial Media Converters

SFP Modules

The small form-factor pluggable (SFP) is a hot-swappable optical module transceiver in a compact size and a variety of transmitter and receiver specifications for data communications. They are used for when a transmission service is needed between points further than 100 meters beyond where traditional copper cables can reach, SFP modules can easily overcome these problems.



Industrial Grade 1.25 Gbps SFP Modules w/ DDM

Part Number	Optical Mode	Fiber Cable Type	Typical Distance	Optical Connector	Sensitivity (dB)	Operating Temperature	DDM	Typical (nm)	TX Range (nm)	RX Range (nm)	TX Range (dBm)	RX Range (dBm)	Link Budget (dBm)	Dispersion Penalty (dB)
SFP-GMM-550	Multi-mode	OM1/OM2	550 m	Duplex LC	-17	-40 ~ 85°C (-40 ~ 185°F)	✓	850	830 ~ 860	770 ~ 860	-9.5~-4	-3~-17	7.5	-
SFP-GMM-2K	Multi-mode	Multi-Mode	2 km	Duplex LC	-21			1310	1260 ~ 1355	1260 ~ 1620	-10~-1	-3~-21	11	3
SFP-GSM-20K	Single-mode	G.652	20 km	Duplex LC	-23			1310	1285 ~ 1343	1260 ~ 1620	-8~-2	-3~-23	15	-
SFP-GSM3-40K	Single-mode	G.652	40 km	Duplex LC	-24			1310	1290 ~ 1355	1260 ~ 1620	-2~-3	-3~-24	22	3
SFP-GSS-40KTX-LC	Bi-Directional	G.652	40 km	Simplex LC	-23			1310 Tx / 1550 Rx	1270 ~ 1355	1470 ~ 1600	-3~-2	-3~-23	20	3
SFP-GSS-40KRX-LC	Bi-Directional	G.652	40 km	Simplex LC	-23			1550 Tx / 1310 Rx	1530 ~ 1570	1260 ~ 1360	-5~-0	-3~-23	18	3
SFP-GSS-20KTX	Bi-Directional	G.652	20 km	Simplex SC	-23			1310 Tx / 1550 Rx	1270 ~ 1355	1480 ~ 1600	-8~-2	-3~-23	15	3
SFP-GSS-20KRX	Bi-Directional	G.652	20 km	Simplex SC	-23			1550 Tx / 1310 Rx	1510 ~ 1570	1250 ~ 1380	-8~-2	-3~-23	15	3
SFP-GSS-40KTX	Bi-Directional	G.652	40 km	Simplex SC	-23			1310 Tx / 1550 Rx	1270 ~ 1355	1480 ~ 1600	-3~-2	-3~-23	20	3
SFP-GSS-40KRX	Bi-Directional	G.652	40 km	Simplex SC	-23			1550 Tx / 1310 Rx	1510 ~ 1570	1250 ~ 1380	-3~-2	-3~-23	20	3

Industrial Grade 100-155 Mbps SFP Modules w/ DDM

Part Number	Optical Mode	Fiber Cable Type	Typical Distance	Optical Connector	Sensitivity (dB)	Operating Temperature	DDM	Typical (nm)	TX Range (nm)	RX Range (nm)	TX Range (dBm)	RX Range (dBm)	Link Budget (dBm)	Dispersion Penalty (dB)
SFP-FSM-20K	Single-mode	G.652	20 km	Duplex LC	-35	-40 ~ 85°C (-40 ~ 185°F)	✓	1310	1280 ~ 1340	1260 ~ 1620	-15~-8	-3~-35	20	3
SFP-FSM-40K	Single-mode	G.652	40 km	Duplex LC	-36			1310	1280 ~ 1340	1260 ~ 1620	-5~-0	-3~-36	31	3
SFP-FSS-20KTX	Bi-Directional	G.652	20 km	Simplex SC	-32			1310 Tx / 1550 Rx	1261 ~ 1360	1480 ~ 1600	-14~-8	0~-32	18	-
SFP-FSS-20KRX	Bi-Directional	G.652	20 km	Simplex SC	-32			1550 Tx / 1310 Rx	1480 ~ 1576	1260 ~ 1360	-14~-8	0~-32	18	-
SFP-FSS-40KTX	Bi-Directional	G.652	40 km	Simplex SC	-34			1310 Tx / 1550 Rx	1280 ~ 1340	1480 ~ 1600	-5~-0	-3~-34	29	3
SFP-FSS-40KRX	Bi-Directional	G.652	40 km	Simplex SC	-34			1550 Tx / 1310 Rx	1480 ~ 1580	1250 ~ 1360	-5~-0	-3~-34	29	3

10 Gbps SFP+ & XFP Modules w/ DDM

Part Number	Optical Mode	Fiber Cable Type	Typical Distance	Optical Connector	Sensitivity (dB)	Operating Temperature	DDM	Typical (nm)	TX Range (nm)	RX Range (nm)	TX Range (dBm)	RX Range (dBm)	Link Budget (dBm)	Dispersion Penalty (dB)
SFP-XSS-10KTX-LC	Bi-Directional	G.652	10 km	Simplex LC	-14.4	0 ~ 70°C (32 ~ 158°F)	✓	1270 Tx / 1330 Rx	1260 ~ 1280	1320 ~ 1340	-6~-1	0.5~-14.4	8.4	3.2
SFP-XSS-10KRX-LC	Bi-Directional	G.652	10 km	Simplex LC	-14.4			1330 Tx / 1270 Rx	1320 ~ 1340	1260 ~ 1280	-6~-1	0.5~-14.4	8.4	3.2
SFP-XSS-40KTX-LC	Bi-Directional	G.652	40 km	Simplex LC	-15.5			1270 Tx / 1330 Rx	1260 ~ 1280	1320 ~ 1340	0.5~5	0.5~-15.5	16	3.2
SFP-XSS-40KRX-LC	Bi-Directional	G.652	40 km	Simplex LC	-15.5			1330 Tx / 1270 Rx	1320 ~ 1340	1260 ~ 1280	0.5~5	0.5~-15.5	16	3.2

✓ : supported, - : not supported, △ : optional

Industrial Media Converters

SFP Modules

Industrial Grade 10 Gbps SFP+ & XFP Modules w/ DDM

Part Number	Optical Mode	Fiber Cable Type	Typical Distance	Optical Connector	Sensitivity (dB)	Operating Temperature	DDM	Typical (nm)	TX Range (nm)	RX Range (nm)	TX Range (dBm)	RX Range (dBm)	Link Budget (dBm)	Dispersion Penalty (dB)
 SFP-XMM-LCI-400	Multi-mode	OM3	400 m	Duplex LC	-11.1	-40 ~ 85°C (-40 ~ 185°F)	✓	850	840 ~ 860	840 ~ 860	-7.3~-1	-0.1~-9.9	2.6	-
 SFP-XSM-LCI-10K	Single-mode	G.652	10 km	Duplex LC	-12.6			1310	1260 ~ 1355	1260 ~ 1355	-8.2~-0.5	0.5~-14.4	6.2	-
 SFP-XSM-LCI-20K	Single-mode	G.652	20 km	Duplex LC	-12.6			1310	1260 ~ 1355	1260 ~ 1355	-5~-0.5	0.5~-14.4	9.4	-
 SFP-XSM5-LCI-40K	Single-mode	G.652	40 km	Duplex LC	-16			1550	1530 ~ 1565	1260 ~ 1620	-4.7~-4	0.5~-16	11.3	3
 SFP-XSM-LCI-80K	Single-mode	G.652	80 km	Single LC	-23			1550	1530 ~ 1565	1260 ~ 1620	0~4	-7~-23	23	3

Copper SFP Modules

Part Number	Optical Mode	Fiber Cable Type	Typical Distance	Optical Connector	Sensitivity (dB)	Operating Temperature	DDM	Typical (nm)	TX Range (nm)	RX Range (nm)	TX Range (dBm)	RX Range (dBm)	Link Budget (dBm)	Dispersion Penalty (dB)
 SFP-10GTX	-	-	100 m	RJ-45	-	0 ~ 70°C (32 ~ 158°F)	-	-	-	-	-	-	-	-

Media Converters with PoE



Description		 EKI-2741FPI	 EKI-2742FPI	 IMC-595MPI
Connectivity	10/100/1000Base-T PoE, Fixed	1	2	2
	Open SFP Slot (GbE)	1	1	2
	Auto MDI/MDI-X	✓	✓	✓
	Auto Negotiation	✓	✓	✓
	Store-and-Forward Switching	✓	✓	✓
	Link Fault Pass-Through (LFP)	✓	-	✓
	MTBF	743,594 hours	717,339 hours	244,570 hours
Traffic Control	Jumbo Frame Size	10 KB	10 KB	9216 KB
	IEEE 802.3x Flow Control	✓	✓	✓
Physical	Dimension (W x H x D)	36.7 x 108.4 x 103.5 mm	36.7 x 108.4 x 103.5 mm	92.5 x 98 x 21 mm
	Mounting Type	DIN-rail/Wall mount	DIN-rail/Wall mount	DIN-rail
	IP Rating	IP31	IP31	IP30
Power	Power Input Voltage	24~48 V _{DC}	24~48 V _{DC}	55~57 V _{DC}
	Power Consumption	34W	63.5W	182W
	Reverse Protection	✓	✓	-
Certification	UL508	✓	✓	-
	UL-CID2	✓	✓	-
	FCC	✓	✓	✓
	CE	✓	✓	✓

✓ : supported, - : not supported, △ : optional

Industrial Media Converters

Long Reach Solutions



Model Name	IMC-150LI	IMC-150LPI
Standard	IEEE802.3 IEEE802.3u IEEE802.3x	IEEE802.3 IEEE802.3u IEEE802.3x IEEE802.3at/af
RJ-45 Port Interface	2	2
RJ-45 Transmission Distance	–	–
RJ-45 w/ PoE Quantity	1	1
MAC Table Size	–	–
Packet Buffer Size	–	–
Switch Fabric Speed	up to 100Mbps	up to 100Mbps
Jumbo Frame	–	–
Dimension (W x H x D)	92.58 x 21.08 x 98.04 mm (3.65 x 0.83 x 3.86 in)	92.58 x 21.08 x 98.04 mm (3.65 x 0.83 x 3.86 in)
IP Grade	IP30	IP30
Enclosure	–	–
Weight	400 g	400 g
Mounting Type	Din-rail, Wall	Din-rail, Wall
Operating Temperature	-40 ~ 75°C (-40 ~ 167°F)	-40 ~ 75°C (-40 ~ 167°F)
Storage Temperature	-40 ~ 85°C (-40 ~ 185°F)	-40 ~ 85°C (-40 ~ 185°F)
Relative Humidity (Non-condensing)	–	–
Time	–	–
Method	–	–
Operating Voltage	–	–
Power Consumption	2.401W	33W
Connectors	3	2
Safety	LVD EN62368	LVD EN62368
EMC	✓	✓
EMI	✓	✓
EMS	✓	✓
Shock	✓	✓
Freefall	✓	✓
Vibration	✓	✓
Warranty Period	5	5

✓ : supported, – : not supported, △ : optional

1

Edge Software & Industry Solutions

2

Intelligent HMI & Monitors

3

Automation Computers

4

Intelligent Systems

5

Mission Critical CompactPCI Platforms

6

Intelligent Transportation & Substation Certified Systems

7

Industrial Server & Cloud Solutions

8

AI & Advanced Computer Vision

9

Video Infrastructure Solutions

10

Network & Security Solutions

11

Industrial Communication

12

Industrial Gateways

13

EtherCAT Solutions & Automation Controllers

14

Intelligent Motion Control Solutions

15

Data Acquisition (DAQ) Solutions

16

Remote I/O, Wireless I/O & Sensors

17

Serial/USB Communications

Industrial Media Converters

PoE Injectors



Description		EKI-2701HPI	EKI-2701HP-AC	EKI-2701MPI-5G
Connectivity	10/100/1000Based-Tx, Fixed	1	-	-
	10/100/1000Base-T PoE, Fixed	1	1	1 (multi data rate 10M / 100M / 1G / 2.5G / 5G)
	Auto Negotiation	-	✓	✓
	Store-and-Forward Switching	-	✓	✓
	MTBF	1,419,817 hours	1,999,263 hours	-
Physical	Housing Dimension (W x H x D)	37 x 140 x 95 mm	65 x 36 x 140 mm	84 x 80 x 25 mm
	Mounting Type	DIN-rail/Wall mount	Desktop	DIN-rail/Wall mount
	IP Rating	IP30	N/A	IP30
Power	Power Input Voltage	24~48 V _{DC}	100~240 V _{DC}	54~57 V _{DC}
	Power Consumption	33.36W	<36W	Max 92W
	Reverse Protection	✓	-	✓
Certification	UL60950-1	-	UL62368	UL62368
	FCC	✓	✓	✓
	CE	✓	✓	✓

✓ : supported, - : not supported, △ : optional

PoE Splitters



Description		EKI-2701PSI	EKI-2711PSI
Connectivity	10/100/1000Based-Tx, Fixed	1	1
	10/100/1000Base-T PoE, Fixed	1	1
	Auto Negotiation	-	-
	Store-and-Forward Switching	-	-
	MTBF	-	-
Physical	Housing Dimension (W x H x D)	37 x 140 x 95 mm	30 x 140 x 95 mm
	Mounting Type	DIN-rail/Wall mount	DIN-rail/Wall mount
	IP Rating	IP30	IP30
Power	Power Input Voltage	44~57 V _{DC}	48 V _{DC}
	Power Consumption	12.95 W @24 V _{DC}	25W @24 V _{DC}
	Reverse Protection	Power isolation & short circuit protection	✓
Certification	UL60950-1	✓	-
	UL508	-	-
	FCC	✓	-
	CE	✓	✓

✓ : supported, - : not supported, △ : optional

