



BMC DR. SCHETTER

Dr. Schetter BMC Industrielle Ethernet Produkte

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► SELECTION GUIDE Managed Ethernet Switches



Model Name		EKI-4654R	EKI-6558TI/ 6559TMI	EKI-7758F
Description		24+2 SFP Port Gigabit Managed Redundant Industrial Ethernet Switch	8-port M12 + 2-port Fiber Optic IP67 Managed Industrial Ethernet Switch with Wide Temperature	4G+4SFP Gigabit Managed Redundant Industrial Ethernet Switch
Interface	Ports Number	26	8/10	8
	10/100Base-T(X)	24	8/8	-
	100BaseFX	-	0/2	-
	10/100/1000Base-T(X)	-	-	4
	1000Base-SX/LX/LHX/XD/ZX/EZX	2	-	4
	PoE (10/100Mbps)	-	-	-
	PoE (10/100/1000Mbps)	-	-	-
	DI/DO	-	-	-
Network Management	Console	V	V	V
	Redundancy	V	V	V
	Diagnostics	V	V	V
	VLAN	V	V	V
	Configuration	V	V	V
	SNMP	V	V	V
	Security	V	V	V
Power	Traffic Control	V	V	V
	2 x Unregulated 12 ~ 48 V _{DC}		V	V
	2 x Unregulated 100 ~ 240 V _{DC}	V	-	-
	2 x Unregulated 100 ~ 240 V _{AC}	V	-	-
	Relay Output	V	V	V
Mechanism	DIN-rail Mount	-	-	V
	Wallmount	-	V	V
	Rack Mount	V	-	-
	IP30	V	IP67	V
Protection	ESD (Ethernet)	V	V	V
	Surge (EFT for power)	V	V	V
	Power Reverse	V	V	V
Operating Temperature	-10 ~ 60° C (14 ~ 140° F)	-	-	V
	-40 ~ 75° C (-40 ~ 167° F)	-	V	-
	-40 ~ 85° C (-40 ~ 185° F)	V	-	-
Certifications	CE	V	V	V
	FCC	V	V	V
	UL/cUL 60950-1	V	-	V
	Class I, Division 2	-	-	V
	UL 508	-	V	-

► SELECTION GUIDE Managed Ethernet Switches



EKI-7656C/CI	EKI-7659C/CI	EKI-7657C	EKI-7654C
16+2G Combo Port Gigabit Managed Redundant Industrial Ethernet Switch	8+2G Combo Port Gigabit Managed Redundant Industrial Ethernet Switch	7+3G Combo Port Gigabit Managed Redundant Industrial Ethernet Switch with 2 x DI/O	4+2G Combo Port Gigabit Managed Redundant Industrial Ethernet Switch
18	10	10	6
16	8	7	4
-	-	-	-
2	2	3	2
2	2	3	2
-	-	-	-
-	-	-	-
-	-	2	-
V	V	V	V
V	V	V	V
V	V	V	V
V	V	V	V
V	V	V	V
V	V	V	V
V	V	V	V
V	V	V	V
-	-	-	-
-	-	-	-
V	V	V	V
V	V	V	V
V	V	V	V
-	-	-	-
V	V	V	V
V	V	V	V
V	V	V	V
V	V	V	V
V	V	V	V
V (EKI-7656CI)	V (EKI-7659CI)	-	-
-	-	-	-
V	V	V	V
V	V	V	V
V	V	V	V
V	-	V	-
-	-	-	-

► SELECTION GUIDE Managed Ethernet Switches



Model Name		EKI-7554SI/MI	EKI-7559SI/MI	EKI-7556MI	EKI-2748FI/CI	EKI-2548I/MI
Description		4+2 SC-type Fiber Optic Managed Redundant Industrial Ethernet Switch with Wide Temperature	8+2 SC-type Fiber Optic Managed Redundant Industrial Ethernet Switch with Wide Temperature	16+2 SC Type Fiber Optic Managed Industrial Ethernet Switch with Wide Temperature	6Gx+2 Combo Managed Ethernet Switch with Wide Temperature	8Tx Managed Ethernet Switch with Wide Temperature
Interface	Ports Number	6	10	18	8/8	8/8
	10/100Base-T(X)	4	8	16	-	8/6
	100BaseFX	2	2	2	-	0/2
	10/100/1000Base-T(X)	-	-	-	4/6	-
	1000Base-SX/LX/LHX/XD/ZX/EZX	-	-	-	4/2	-
	PoE (10/100Mbps)	-	-	-	-	-
	PoE (10/100/1000Mbps)	-	-	-	-	-
	DI/DO	-	-	-	-	-
Network Management	Console	V	V	V	V	V
	Redundancy	V	V	V	V	V
	Diagnostics	V	V	V	V	V
	VLAN	V	V	V	V	V
	Configuration	V	V	V	V	V
	SNMP	V	V	V	V	V
	Security	V	V	V	V	V
Power	Traffic Control	V	V	V	V	V
	2 x Unregulated 12 ~ 48 V _{DC}	V	V	V	V	V
	2 x Unregulated 100 ~ 240 V _{DC}	-	-	-	-	-
	2 x Unregulated 100 ~ 240 V _{DC}	-	-	-	-	-
Mechanism	Relay Output	V	V	V	V	V
	DIN-rail Mount	V	V	V	V	V
	Wallmount	V	V	V	V	V
	Rack Mount	-	-	-	-	-
Protection	IP30	V	V	V	V	V
	ESD (Ethernet)	V	V	V	V	V
	Surge (EFT for power)	V	V	V	V	V
Operating Temperature	Power Reverse	V	V	V	V	V
	-10 ~ 60° C (14 ~ 140° F)	-	-	-	V	V
	-40 ~ 75° C (-40 ~ 167° F)	V	V	V	-	-
Certifications	-40 ~ 85° C (-40 ~ 185° F)	-	-	-	-	-
	CE	V	V	V	V	V
	FCC	V	V	V	V	V
	UL / UL 60950-1	V	V	-	-	-
	Class I, Division 2	-	V	V	V	-
UL 508		-	-	V	V	V

► SELECTION GUIDE Media Converters



Model Name		EKI-2741F/SX/LX/LXI	EKI-2541M/S
Description		10/100/1000TX to Fiber Optic Gigabit Industrial Media Converters	10/100TX to Multi-mode / Single-mode SC Type Fiber Optic Industrial Media Converters
Interface	Ports Number	2	2
	10/100Base-T(X)	-	1
	100BaseFX	-	1
	10/100/1000Base-T(X)	1	-
	1000Base-SX/LX/LHX/XD/ ZX/EZX	1	-
	PoE (10/100Mbps)	-	-
	PoE (10/100/1000Mbps)	-	-
	DI/DO	-	-
Network Management	Console	-	-
	Redundancy	-	-
	Diagnostics	-	-
	VLAN	-	-
	Configuration	-	-
	SNMP	-	-
	Security	-	-
Power	Traffic Control	-	-
	2 x Unregulated 12 ~ 48 V _{DC}	V	V
	2 x Unregulated 100 ~ 240 V _{DC}	-	-
	2 x Unregulated 100 ~ 240 V _{AC}	-	-
Mechanism	Relay Output	V	V
	DIN-rail Mount	V	V
	Wallmount	V	V
	Rack Mount	-	-
Protection	IP30	V	V
	ESD (Ethernet)	V	V
	Surge (EFT for power)	V	V
Operating Temperature	Power Reverse	V	V
	-10 ~ 60° C (14 ~ 140° F)	V	V
	-40 ~ 75° C (-40 ~ 167° F)	V (EKI-2741LXI)	V (EKI-2541MI/EKI-2541SI)
	-40 ~ 85° C (-40 ~ 185° F)	-	-
Certifications	CE	V	V
	FCC	V	V
	UL/ UL 60950-1	V	V
	Class I, Division 2	V	V
	UL 508	-	-

► SELECTION GUIDE Unmanaged Ethernet Switches



Model Name		EKI-4524I/RI/ARI	EKI-7526I/MI	EKI-7529MI/ST	EKI-7626C/CI	EKI-7629C/CI	EKI-2728MI
Description		24+2 SFP Port Ethernet Switch w/Wide Temp	16+2 SC Type Fiber Optic Unmanaged Industrial Ethernet Switch with Wide Temperature	8+2 Multi-mode Fiber Optic Industrial Unmanaged Ethernet Switch with Wide Temperature	16+2G Combo Port Gigabit Unmanaged Industrial Ethernet Switch	8+2G Combo Port Gigabit Unmanaged Industrial Ethernet Switch	6G+2G Multi-mode Unmanaged Ethernet Switch with Wide Temperature
Interface	Ports Number	24/26/26	16/18	10	18	10	8
	10/100Base-T(X)	24	16/16	8	16	8	-
	100BaseFX	0/2/2	0/2	2	-	-	-
	10/100/1000Base-T(X)	-	-	-	2	2	6
	1000Base-SX/LX/LHX/XD/ZX/EZX	-	-	-	2	2	2
	PoE (10/100Mbps)	-	-	-	-	-	-
	PoE (10/100/1000Mbps)	-	-	-	-	-	-
	DI/DO	-	-	-	-	-	-
Network Management	Console	-	-	-	-	-	-
	Redundancy	-	-	-	-	-	-
	Diagnostics	-	-	-	-	-	-
	VLAN	-	-	-	-	-	-
	Configuration	-	-	-	-	-	-
	SNMP	-	-	-	-	-	-
	Security	-	-	-	-	-	-
Power	Traffic Control	-	-	-	-	-	-
	2 x Unregulated 12~ 48 V _{DC}	EKI-4524ARI (Single Input)	V	V	V	V	V
	1 x Unregulated 100 ~ 240 V _{DC}	EKI-4524RI	-	-	-	-	-
	1 x Unregulated 100 ~ 240 V _{AC}	EKI-4524I/RI	-	-	-	-	-
Mechanism	Relay Output	V	V	V	V	V	V
	DIN-rail Mount	-	V	V	V	V	V
	Wallmount	-	V	V	V	V	V
	Rack Mount	V	-	-	-	-	-
	IP30	V	V	V	V	V	V
Protection	ESD (Ethernet)	V	V	V	V	V	V
	Surge (EFT for power)	V	V	V	V	V	V
	Power Reverse	V	V	V	V	V	V
Operating Temperature	-10 ~ 60° C (-14 ~ 140° F)	-	-	-	V	V	V
	-40 ~ 75° C (-40 ~ 167° F)	-	V	V	-	-	-
	-40 ~ 85° C (-40 ~ 185° F)	V	-	-	-	-	-
Certifications	CE	V	V	V	V	V	V
	FCC	V	V	V	V	V	V
	UL/ UL 60950-1	-	-	-	V	V	-
	Class I, Division 2	-	V	V	-	-	V
	UL 508	V	V	V	-	-	V

► SELECTION GUIDE Unmanaged Ethernet Switches



Model Name		EKI-2725/2728	EKI-2525/2528	EKI-2525M	EKI-2526M/S
Description		5/8-port Gigabit Unmanaged Industrial Ethernet Switch	5/8-port Unmanaged Industrial Ethernet Switch	4+1 100FX Port Multi-mode Unmanaged Industrial Ethernet Switch	4+2 100FX Port Multi-mode/Single-mode Industrial Ethernet Switch
Interface	Ports Number	5/8	5/8	5	6
	10/100Base-T(X)	-	5/8	4	4
	100BaseFX	-	-	1	2
	10/100/1000Base-T(X)	5/8	-	-	-
	1000Base-SX/LX/LHX/XD/ZX/EZX	-	-	-	-
	PoE (10/100Mbps)	-	-	-	-
	PoE (10/100/1000Mbps)	-	-	-	-
	DI/DO	-	-	-	-
	Console	-	-	-	-
Network Management	Redundancy	-	-	-	-
	Diagnostics	-	-	-	-
	VLAN	-	-	-	-
	Configuration	-	-	-	-
	SNMP	-	-	-	-
	Security	-	-	-	-
	Traffic Control	-	-	-	-
Power	2 x Unregulated 12 ~ 48 V _{DC}	V	V	V	V
	2 x Unregulated 100 ~ 240 V _{DC}	-	-	-	-
	2 x Unregulated 100 ~ 240 V _{AC}	-	-	-	-
	Relay Output	V	V	V	V
Mechanism	DIN-rail Mount	V	V	V	V
	Wallmount	V	V	V	V
	Rack Mount	-	-	-	-
	IP30	V	V	V	V
Protection	ESD (Ethernet)	V	V	V	V
	Surge (EFT for power)	V	V	V	V
	Power Reverse	V	V	V	V
Operating Temperature	-10 ~ 60° C (14 ~ 140° F)	V	V	V	V
	-40 ~ 75° C (-40 ~ 167° F)	-	V (EKI-2525I/ EKI-2528I)	-	-
	-40 ~ 85° C (-40 ~ 185° F)	-	-	-	-
Certifications	CE	V	V	V	V
	FCC	V	V	V	V
	UL/ UL 60950-1	V	V	V	V
	Class I, Division 2	V	V	V	V
	UL 508	-	-	-	-

► SELECTION GUIDE PoE Switches



Model Name		EKI-7659CPI	EKI-2525P	EKI-2525SPI
Description		8+2G Port Gigabit Managed Redundant Industrial PoE Switch with Wide Temperature	5-port Industrial PoE Switch	5-port Industrial PoE Switch with 1x100Fx Single-Mode and Wide Temperature
Interface	Ports Number	10	5	5
	10/100Base-T(X)	-	1	-
	100BaseFX	-	-	1
	10/100/1000Base-T(X)	-	-	-
	1000Base-SX/LX/LHX/XD/ZX/EZX	2	-	-
	PoE (10/100Mbps)	8	4	4
	M12 Connector (10/100 Mbps)	-	-	-
	DI/DO	-	-	-
Network Management	Console	V	-	-
	Redundancy	V	-	-
	Diagnostics	V	-	-
	VLAN	V	-	-
	Configuration	V	-	-
	SNMP	V	-	-
	Security	V	-	-
	Traffic Control	V	-	-
Power	2 x Unregulated 12 ~ 48 V _{DC}	48 V _{DC}	48 V _{DC}	48 V _{DC}
	2x Unregulated 100 ~ 240 V _{DC}	-	-	-
	2 x Unregulated 100 ~ 240 V _{AC}	-	-	-
	Relay Output	V	V	V
Mechanism	DIN-rail Mount	V	V	V
	Wallmount	V	V	V
	Rack Mount	-	-	-
	IP30	V	V	V
Protection	ESD (Ethernet)	V	V	V
	Surge (EFT for power)	V	V	V
	Power Reverse	V	V	V
Operating Temperature	-10 ~ 60° C (14 ~ 140° F)	-	V	-
	-40 ~ 75° C (-40 ~ 167° F)	V	-	V
	-40 ~ 85° C (-40 ~ 185° F)	-	-	-
Certifications	CE	V	V	V
	FCC	V	V	V
	UL/ UL 60950-1	V	V	V
	Class I, Division 2	-	-	-
	UL 508	-	-	-

► SELECTION GUIDE PoE Switches



EKI-2526PI	EKI-2525PA	EKI-2528PAI	EKI-2701PSI
6-port Industrial PoE Switch with Wide Temperature	5-Port Industrial PoE Switch with 24/48 V _{DC} Power Input	8-port Industrial PoE Switch with 24/48 V _{DC} Power Input and Wide Temperature	Industrial PoE Splitter with Wide Temperature
6	5	8	2
2	1	4	1
-	-	-	-
-	-	-	1
-	-	-	-
4	4	4	1
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
48 V _{DC}	24/48 V _{DC}	24/48 V _{DC}	V (44~57 V _{DC})
-	-	-	-
-	-	-	-
V	V	V	-
V	V	V	V
V	V	V	V
-	-	-	-
V	V	V	V
V	V	V	V
V	V	V	V
V	V	V	V
-	V	-	-
V	-	V	V
-	-	-	-
V	V	V	V
V	V	V	V
V	V	V	V
-	-	-	-
-	-	-	-

► SELECTION GUIDE Wireless Access Points / Client Bridges



Model Name		EKI-6311GN	EKI-6321AG	EKI-6322AG	EKI-6323AG	EKI-6311G
Description		IEEE 802.11 b/g/n Wireless Access Point/Client Bridge	802.11a/b/g Single Radio Outdoor Wireless Access Point	802.11a/b/g dual Radio Outdoor Wireless Access Point	802.11a/b/g triple Radio Outdoor Wireless Access Point	802.11 b/g Wireless Access Point/Client Bridge
Interface	IEEE 802.11b/g	V	V	V	V	V
	IEEE 802.11a	-	V	V	V	-
	IEEE 802.11n	V	-	-	-	-
	10/100Base-T(X)	V	V	V	V	V
	10/100/1000Base-T(X)	-	-	-	-	-
	RF Connector Type	N/ RSMA	N-type	N-type	N-type	RSMA
	RF Connector	1	1	2	3	2
RF	Transmit Output Power	802.11b: 26dBm 802.11g: 26dBm 802.11gn 26dBm	802.11b mode: 17dBm 802.11g mode: 17dBm 802.11a mode: 15dBm	802.11b mode: 17dBm 802.11g mode: 17dBm 802.11a mode: 15dBm	802.11b mode: 17dBm 802.11g mode: 17dBm 802.11a mode: 15dBm	17dBm ± 2
	Receive Sensitivity	802.11b: -93dBm 802.11g: -89dBm 802.11n HT20: -88dBm 802.11n HT40: -84dBm	802.11b Sensitivity: -93dBm 802.11g Sensitivity: -89dBm 802.11a Sensitivity: -88dBm	802.11b Sensitivity: -93dBm 802.11g Sensitivity: -89dBm 802.11a Sensitivity: -88dBm	802.11b Sensitivity: -93dBm 802.11g Sensitivity: -89dBm 802.11a Sensitivity: -88dBm	802.11b: -96dBm 802.11g: -76dBm
Operation mode	Access Point	V	V	V	V	V
	Client Bridge	V	V	V	V	V
	Mesh	-	V	V	V	-
	Mobility	-	V	V	V	-
	Security	V	V	V	V	V
Power	PoE (48V)	-	V	V	V	V
	PoE (12V)	V	-	-	-	-
Mechanism	Wall mount	V	V	V	V	V
	DIN- rail mount	-	-	-	-	-
	Pole mount	V	V	V	V	V
	IP protection grade	IP65	IP67	IP67	IP67	IP65
Operating temperature	-20 ~70° C (-4 ~ 158° F)	V	-	-	-	-
	-10 ~60° C (14 ~ 140° F)	-	-	-	-	V
	-40 ~70° C (-40 ~158° F)	-	V	V	V	-
Certification	CE	V	V	V	V	V
	FCC	V	V	V	V	V

► ACCESSORIES Pluggable Transceiver Modules



Features

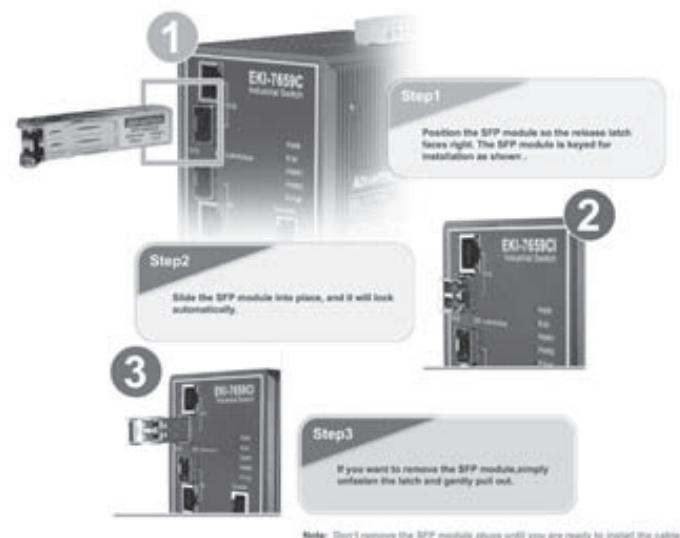
- Industry standard small form pluggable (SFP) package
- Immovable lock design
- Hot pluggable
- Duplex LC connector
- Full duplex speeds support
- TTL signal detect indicator
- 3.3 V_{DC} power supply
- Industry leading EMI performance for high port density
- Class 1 laser product complies with EN 60825-1
- RoHS compliant

Introduction

Advantech's Small Form-factor Pluggable (SFP) transceiver family is available with a variety of different types, allowing users to select the appropriate transceiver for each link to provide the required optical reach over the available optical fiber type. Advantech's SFP transceiver immovable lock design can fix SFP module into the switch firmly. Besides Advantech's SFP transceiver's compact design provides high port density and compliant with Fast Ethernet and IEEE802.3z Gigabit Ethernet Standards. Advantech's SFP transceivers ensure your networks operate with maximum performance, reliability, and flexibility.

Specifications

Category	Distance	Model Name	Wave length	Tx Power	Rx sensitivity	Link Budget
100Base-FX	M.M. (2 km)	SFP-FXM/LC	1310 nm	-14dBm (min) ~ -20dBm (Max)	-31dBm (Max)	11dBm
	S.M. (30 km)	SFP-FXS/LC-30	1310 nm	-8dBm (min) ~ -15dBm (Max)	-34dBm (Max)	11dBm
1000Base	SX (550 m)	SFP-GSX/LC	850 nm	-4dBm (min) ~ -9.5dBm (Max)	-18dBm (Max)	19dBm
	LX (10 km)	SFP-GLX/LC-10	1310 nm	-3dBm (min) ~ -9.5dBm (Max)	-20dBm (Max)	19dBm
	LX (20 km)	SFP-GLX/LC-20	1310 nm	-2dBm (min) ~ -8dBm (Max)	-23dBm (Max)	19dBm
	LX (40 km)	SFP-GLX/LC-40	1310 nm	+1dBm (min) ~ -4dBm (Max)	-24dBm (Max)	20dBm
1000Base	Up to 100 m	SFP-GTX/RJ45	N/A	N/A	N/A	N/A



Ordering Information

- **SFP-FXM/LC** 100Base-FX Multi-mode SFP module
- **SFP-FXS/LC-30** 100Base-FX Single-mode SFP module
- **SFP-GSX/LC** 1000Base-SX Multi-mode SFP module
- **SFP-GLX/LC-10** 1000Base-LX Single-mode SFP module (10 km)
- **SFP-GLX/LC-20** 1000Base-LX Single-mode SFP module (20 km)
- **SFP-GLX/LC-40** 1000Base-LX Single-mode SFP module (40 km)
- **SFP-GTX/RJ45** 1000Base RJ45 SFP module