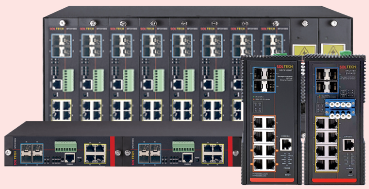
NETWORK PRODUCT 10G Industrial Ethernet Switch

SFC8100 series

The SFC8100 series is a 10G industrial Ethernet switch designed for management purposes. It provides high reliability with features such as wide operating temperature range, fanless design, dual power redundancy, and S-Ring.
It is widely used in industrial settings and local government CCTV self-networking. The switch supports PoE bt 90W and 10Gbps ports, providing the necessary power and bandwidth for WIFI-6 network configurations.



S-Ring 30ms

Recovery time 30ms
S-Ring protocol

-40~80℃ BT 70℃

Industrial switch
Operating temperature

polarity protection

Dual Power
Supply

PoE bt

PoE af/at/bt
Max 90W

Stability/Compatibility

- Soltech ring protocol recovery time 30ms
- Secured Compatibility Standard ERPS
- Supports SNMPv2c, SNMPv3
- SNMP, Syslog Interlinkable
- Supporting PoE bt 90W and 10Gbps for constructing WIFI-6 systems
- Security compliance and Security functions possible

Industrial Ethernet switch

- Operating temperature: -40 ~ 80℃ (BT -40 ~ 70℃)
- Dual power supply supported
- S-Ring (Recovery time < 30ms) supported
- BYPASS Function option (2x2 , 4x4)

Supports Scan Manager

- IP management program for management product line
- S-Ring status check
- IP setting function
- Product serial code monitoring
- Default gateway setting function
- SW version monitoring

Model		TP Port	PoE Port	SFP Port	Operation Temp	S-Ring	Dual Power Supply	Note
Ordering Information	SFC8100	1Gbps TP 8Ports	-	10Gbps SFP 4Slot	-40 ~ 80℃	O	O	-
	SFC8100-BP_2x2	1Gbps TP 8Ports	-	10Gbps SFP 4Slot	-40 ~ 80℃	O	O	Support BYPASS
	SFC8100-BP_4x4	1Gbps TP 8Ports	-	10Gbps SFP 4Slot	-40 ~ 80℃	O	O	Support BYPASS
	SFC8100BT	1Gbps TP 8Ports	4 PoE(at) + 4 PoE(bt), PoE 240W	10Gbps SFP 4Slot	-40 ~ 70℃	O	O	-
	SFC8100BT-BP_2x2	1Gbps TP 8Ports	4 PoE(at) + 4 PoE(bt), PoE 240W	10Gbps SFP 4Slot	-40 ~ 70℃	O	O	Support BYPASS
	SFC8100BT-BP_4x4	1Gbps TP 8Ports	4 PoE(at) + 4 PoE(bt), PoE 240W	10Gbps SFP 4Slot	-40 ~ 70℃	O	O	Support BYPASS
	SFC8100G	1Gbps TP 4Ports	-	10Gbps SFP 4Slot	0 ~ 60℃	O	O	-

SECURITY FUNCTION SUPPORTED SWITCH

Identification and authentication

- Administrator password change function
- Secure password configuration function
- Input password masking function
- Password encryption storage function
- Password guessing prevention function
- Device access restriction function in case of authentication failure

Password support

- Password algorithm compliance check
  - Hash (SHA-256)
  - Symmetric key encryption (AES256)
  - Public key encryption (RSA2048)
  - Encryption for SNMP transmission : AES128, AES256
  - Message authentication for SNMP transmission : HMAC-SHA, HMAC-SHA256

Security management

- Remote management function
- Firmware update management function
- Remote management IP address assignment function
- Session lock/termination function after a certain period of inactivity
- Administrator simultaneous session limit function
- SNMPv3 support

Audit log

- Function to generate audit data
- Function to notify Administrator in case of audit evidence Size exceeded
- Function to restrict access to audit data

Self-testing

- Major hardware self-diagnosis function when Operating Equipment
- Firmware image and software integrity check
- Function to restrict the number of simultaneous Administrator sessions

Access control

- Function to set access rights for each Administrator account
- Function to set A password for changing operation mode
- Additional authentication function when changing operation mode
- Separate access control for each Administrator account

Transmission data protection

- Function to perform encrypted communication when remotely accessed
- SSH 2.0 or above support function

Information flow control

- ACL function
- VLAN function
- VLAN-Based ACL

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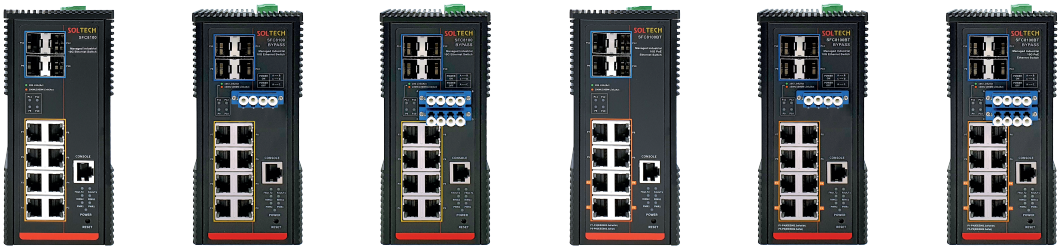

Model		SFC8100	SFC8100-BP_2x2	SFC8100-BP_4x4	SFC8100BT	SFC8100BT-BP_2x2	SFC8100BT-BP_4x4
Port	TP Port	8 TP(1Gbps)	8 TP(1Gbps)	8 TP(1Gbps)	8TP(1Gbps)	8TP(1Gbps)	8TP(1Gbps)
	1G Optical Port	-	-	-	-	-	-
	10G Optical Port	4 SFP(10Gbps)	4 SFP(10Gbps)	4 SFP(10Gbps)	4 SFP(10Gbps)	4 SFP(10Gbps)	4 SFP(10Gbps)
	BYPASS Port	-	O(2x2)	O(4x4)	-	O(2x2)	O(4x4)
	PoE Port	-			4 PoE(at) + 4 PoE(bt), PoE Max. 240W		
Specification	Switch Fabric	96Gbps					
	Throughtput	71.4Mpps					
	RAM/Flash Memory	256MB/32MB					
	MAC Table	32K					
	Jumbo Frame	9.6K					
Power	Input power	DC 36 - 56V			DC 54 - 56V		
	Max power /no load power	AC 12.7W/23.9W	AC 13.9W/25.1W	AC 13.9W/25.1W	AC 14.7W/266W	AC 15.9W/267.2W	AC 15.9W/267.2W
	Redundant power supply	O	O	O	O	O	O
Operating Environment	Operating temperature	-40 ~ 80℃	-40 ~ 80℃	-40 ~ 80℃	-40 ~ 70℃	-40 ~ 70℃	-40 ~ 70℃
	Installation Method	Wall or Din-Rail Mount	Wall or Din-Rail Mount	Wall or Din-Rail Mount	Wall or Din-Rail Mount	Wall or Din-Rail Mount	Wall or Din-Rail Mount
	Size (WxDxH)	74x130x166.5 (mm)	74x130x166.5 (mm)	74x130x166.5 (mm)	74x130x166.5 (mm)	74x130x166.5 (mm)	74x130x166.5 (mm)

Model		SFC8100G	SFC8100G-1U	SFC8100G-4U
Port	TP Port	4 TP(1Gbps)	SFC8100G 19" Chassis system 1U Size Switch 2Slots Switch Purchase separately	SFC8100G 19" Chassis system 4U Size Switch 8Slots Switch Purchase separately
	1G Optical Port	-		
	10G Optical Port	4 SFP(10Gbps)		
	BYPASS Port	-		
	PoE Port	-		
Specification	Switch Fabric	88Gbps		
	Throughtput	65.4Mpps		
	RAM/Flash Memory	256MB/32MB		
	MAC Table	32K		
	Jumbo Frame	9.6K		
Power	Input power	DC 24 ~ 56V	AC 100 ~ 240V	AC 100 ~ 240V
	Max power /no load power	AC 10.5W/AC 24W	To be updated	To be updated
	Redundant power supply	O	O	O
Operating Environment	Operating temperature	0 ~ 60℃	0 ~ 60℃	0 ~ 60℃
	Installation Method	1U, 4U Chassis	Rack Mount	Rack Mount
	Size (WxDxH)	173x152x43 (mm)	417x226x45 (mm)	444x256x174 (mm)