

# CES-1820K-Gi

8 埠 1000 SFP + 2 埠 10/100/1000TX RJ-45 埠 Rugged

全光纖網路交換機



- 支援 IEEE 802.3ab  
1000 Base T 銅纜與  
IEEE 802.3z 1000Base SX/LX 之千兆乙太網路標準
- 內建八個1000Base SX/LX乙太網路傳輸埠，SFP埠可支援多模光纖或單模光纖之SFP 收發器
- 網路傳輸埠可支援全雙工、Auto-MDI/MDI-X 以及自動偵測傳輸速率功能
- 符合IEEE 802.3ab 標準，最高網速可達 1000Mbps 同時支援二埠上連端口可作為現場調適使用
- 支援操作溫度 -10°C ~ 55°C
- 鋼製外殼強固型設計



## OVERVIEW

CES-1820K-Gi 是新一代 10 埠乙太網路光纖交換器，擁有容納強大 L2 交換地址 8K、支援 20G 背板頻寬，並支援 IEEE 802.3/802.3u/802.3x 和 10/100/1000M、全/半雙工、MDI/MDI-X 自動偵測，可真實達到隨插即用，為使用者帶來快速且經濟實惠經由光纖或銅軸線纜傳輸的乙太網路傳輸服務。

CES-1820K-Gi 擁有 8 埠 1G SFP 以及 2 埠 10M/100M/1G RJ45 接口，高 HW 效能與彈性化擴充，高埠數 GbE SFP 光纖接口特別適用於工業區、大樓自動化、社區寬頻建置、中小型企業光纖網路。

CES-1820K-Gi 支援鋼製外殼及強固型設計，可支援 -10 ~ 55 度的操作溫度，可搭配 CTI-1000-SM10 系列光電轉換器使用，兼顧耐用與實用的網路設計

## FEATURES & BENEFITS

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>■ 系統介面 / 效能</li> <li>■ 8 x GbE SFP + 2 10/100/1000Mbps Gigabit 乙太路光纖集合型交換機</li> <li>■ MDI/MDI-X 自動偵測</li> <li>■ 200Mbps full-duplex(全雙工)頻寬與 10/00M 埠連線；2000Mbps full-duplex(全雙工)頻寬可達 1000M 埠</li> <li>■ 內建 8K MAC 學習端口</li> <li>■ 自動配置(automatic source address learning and aging)網路配置</li> <li>■ 符合 IEEE 802.3 10Base-T、IEEE 802.3u 100Base-TX、IEEE 802.3ab 1000Base-T、IEEE 802.3z 1000Base-</li> </ul> | <ul style="list-style-type: none"> <li>SX/LX</li> <li>■ 符合 CE, FCC</li> <li>■ 支援儲存轉發 Store-and-Forward 執行方式</li> <li>■ Metal Housing with desktop or wall mount Design</li> <li>■ 12VDC Power input with DC terminal block</li> </ul> |
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## SPECIFICATION

IEEE Standards	IEEE802.3 10Base-T Ethernet IEEE802.3u 100Base-TX IEEE802.3ab 1000Base-TX IEEE802.3z Gigabit Fiber IEEE802.3x Flow Control and Back Pressure	throughput ability (Full-Duplex): 1488096pps @64bytes
Switch Properties	Back-plane (Switching Fabric): 20 Gbps Packet	Transfer Rate 14,881pps for Ethernet port 148,810pps for Fast Ethernet port 148,8100pps for Giga Ethernet port
		Connectors 1000 FX: 8 x 1000 SFP

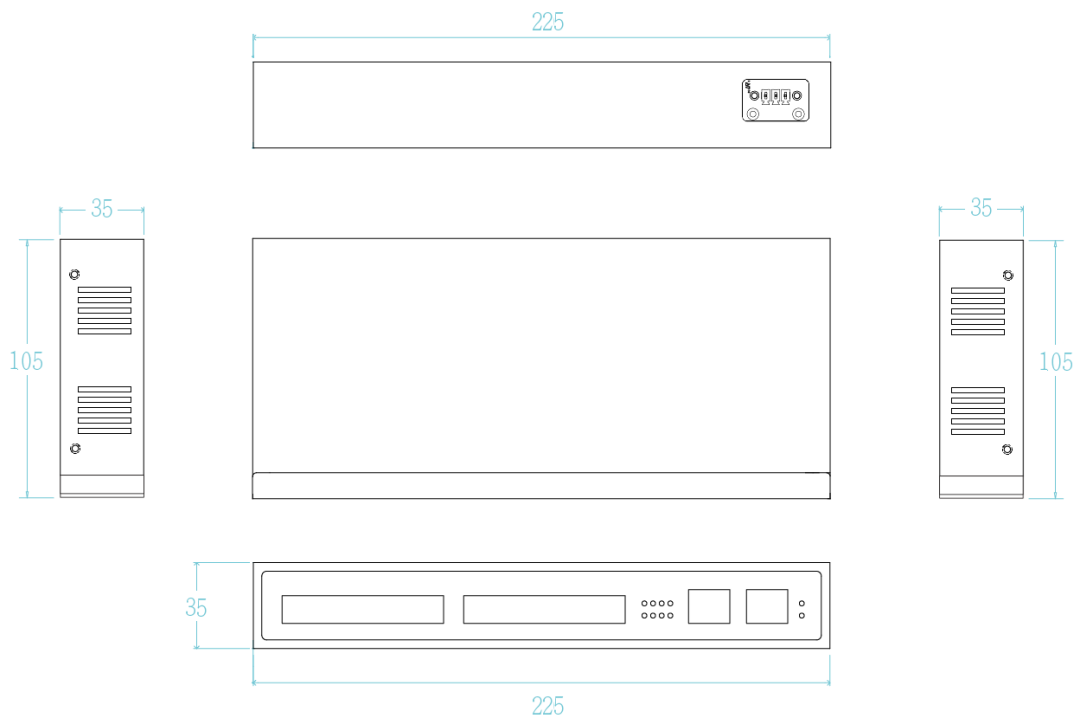
Datasheet Version 1.4

	10/100/1000M TX: 2 x RJ-45 with auto MDI/MDI-X function	<b>Case Dimension</b>	Metal case; 32mm(W)x105mm(D)x225mm(H)
<b>MAC Address</b>	8K MAC addresses	<b>Weight</b>	1200g
<b>Processing</b>	Store-and-Forward	<b>LED</b>	<b>Power Indicator</b> : Green LED x 1 <b>10/100/1000Base-T(X) RJ45 port indicator</b> : Green LED x2 Amber x2 <b>1000Base-SX/LX Fiber port indicator</b> : Green LED x8
<b>Network Cable</b>	10Base-T: 2-pair UTP/STP Cat. 3, 4, 5, 6 cable EIA/TIA-568 100-ohm (100m) 100Base-TX: 2-pair UTP/STP Cat. 5, 6 cable EIA/TIA-568 100-ohm (100m) 1000Base-TX: 2-pair UTP/STP Cat. 5, 6 cable EIA/TIA-568 100-ohm (100m)	<b>Power Supply</b>	12 VDC input with terminal block
<b>Fiber Optical</b>	Distance: Multi mode: 0 to 5 km, 1300 nm (50/125 μm, 800 MHz*km) 0 to 4 km, 1300 nm (62.5/125 μm, 500 MHz*km) Single mode: 0 to 40 km, 1310 nm (9/125 μm, 3.5 PS/(nm*km)) 0 to 80 km, 1550 nm (9/125 μm, 19 PS/(nm*km)) Min. TX Output: Multi mode: -20 dBm Single mode: 0 to 40 km, -5 dBm; 0 to 80 km, -5 dBm Max. TX Output: Multi mode: -14 dBm Single mode: 0 to 40 km, 0 dBm; 0 to 80 km, 0 dBm Sensitivity: -36 to -32 dBm(SM); -34 to -30(MM)	<b>Consumption</b>	9.76 Watts (Full load: Only Ethernet)
<b>Protocol</b>	CSMA/CD	<b>Overload Current</b>	NC
		<b>Reserve Polarity</b>	NC
		<b>Operating Humidity</b>	5% to 95% Non-condensing
		<b>Operating Temperature</b>	-10°C~55°C
		<b>Storage Temperature</b>	-20°C~70°C
		<b>Certification</b>	FCC CE
		<b>Warranty</b>	2 years

\*Future Release  
\*\*Optional

## DIMENSIONS

■ **CES-1820K-Gi**



## ORDERING INFORMATION

- **CES-1820K-Gi**  
8 -1000SFP +2 10/100/1000TX Rugged Fiber optical Switch; KIT with industrial power pack; -10°C~55°C
- **CES-1820K-Gi**  
8 -1000SFP +2 10/100/1000TX Rugged Fiber optical Switch; -10°C~55°C

## OPTIONAL ACCESSORIES

### DIN Rail Power

- **HDR-30-12** 12VDC, 2 A, Wide AC Input, Convection Cooled, DIN Rail , RoHS, Operating Temp. -30°C~70°C
- **MDR-40-12** 12VDC, 3.3 A, Wide AC Input, Convection Cooled, DIN Rail , RoHS, Operating Temp. -20°C~70°C
- **HDR-60-12** 12VDC, 4.5 A, Wide AC Input, Convection Cooled, DIN Rail , RoHS, Operating Temp. -30°C~70°C

### SFP Transceiver

- **CT-1000-SM10**  
1.25G SFP-1000LX Transceiver Hot Pluggable, Duplex LC, 1310nm FP, Single Mode, 10KM; 0°C to 70°C
- **CTI-1000-SM10**  
1.25G SFP-1000LX Transceiver Hot Pluggable, Duplex LC, 1310nm FP, Single Mode, 10KM; -40°C to 85°C
- **CTI-1000-SM10-D**  
1.25G SFP-1000LX Transceiver Hot Pluggable, Duplex LC, 1310nm FP, Single Mode, 10KM; Support DDM ; -40°C to 85°C
- **CT-1000-SX**  
1.25G SFP-1000SX Transceiver Hot Pluggable, Duplex LC, 850nm VCSEL, Multi Mode, 550M ; 0°C to 70°C
- **CTI-1000-SX**  
1.25G SFP-1000SX Transceiver Hot Pluggable, Duplex LC, 850nm VCSEL, Multi Mode, 550M ; -40°C to 85°C
- **CTI-1000-SX-D**  
1.25G SFP-1000SX Transceiver Hot Pluggable, Duplex LC, 850nm VCSEL, Multi Mode, Support DDM, 550M ; -40°C to 85°C

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