

Quick Installation Guide

48GE+2SFP Ethernet Switch
TEG1050F

Package contents

- Switch x 1
- Screw (KM3*8 mm) x 8
- Quick installation guide x 1
- Power cord x 1
- L-shaped bracket x 2
- Footpad x 4

This guide instructs how to install and connect the device. For details, please visit www.tendacn.com

1 Device installation

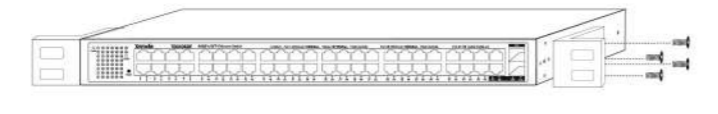
1.1 Preparation for installation

- Rack mounting: ESD bracelet (or ESD gloves), screwdriver, 4 screws (suitable for securing the switch to the rack)
- Wall mounting: ESD bracelet (or ESD gloves), marker, hammer drill, rubber hammer, screwdriver, 4 expansion bolts (M5*40 mm), 4 screws (PA5*25 mm, head diameter: 10 mm)
- Desktop mounting: ESD bracelet (or ESD gloves)

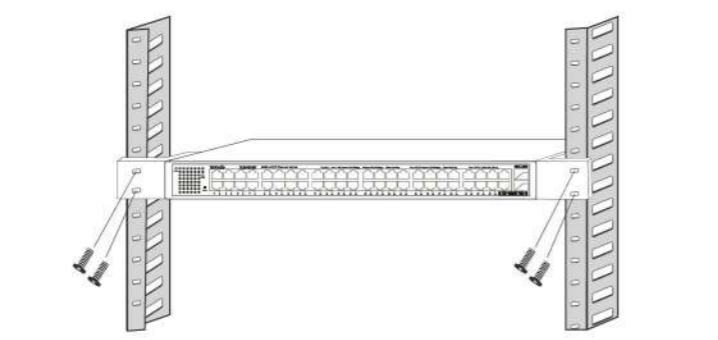
1.2 Installation

• Rack mounting (to a standard 19-inch rack)

- Step 1** Ensure that the rack is stable and level, and is properly grounded.
Step 2 Fix the two L-shaped brackets to both sides of the switch with the included screws.



- Step 3** Choose a proper height and fix the L-shaped brackets to the rack with screws (self-prepared). Ensure that the switch is stable on the rack.



• Wall mounting

- Note:** - Do NOT install the switch with its ventilation openings facing down; otherwise, there will be potential safety hazards.
- This switch can only be installed on a concrete or non-flammable wall.

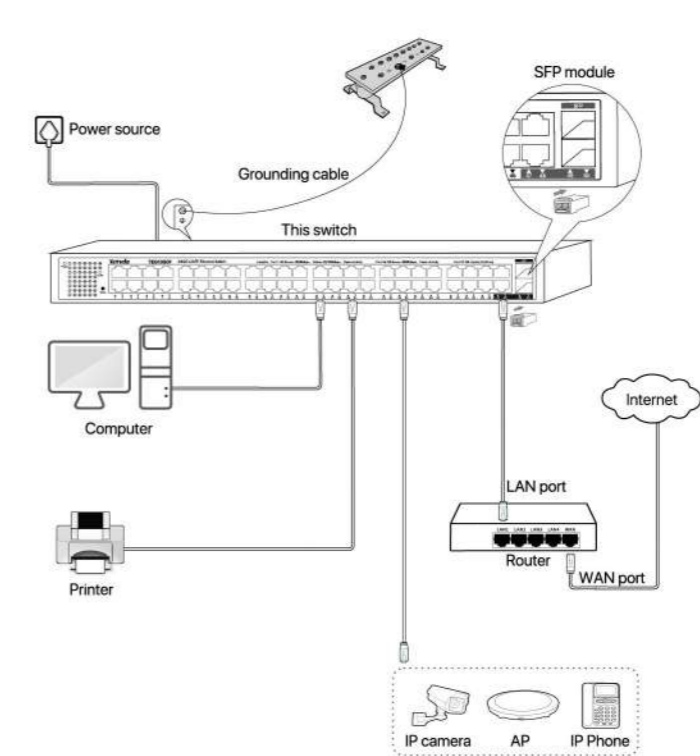
- Step 1** Rotate the two L-shaped brackets by 90 degrees and fix them to both sides of the switch with the included screws.



- Step 2** Place the switch horizontally onto the wall with its RJ45 ports facing upward, and then mark the screw holes with the marker.
Step 3 Drill holes in the marked positions, and then hammer the expansion bolts (self-prepared, M5*40 mm) into the holes.
Step 4 Pass the screws (self-prepared, PA5*25 mm, head diameter: 10 mm) through the holes of the two L-shaped brackets, and secure the screws into the expansion bolts with a screwdriver. Ensure that the switch is installed firmly with its RJ45 ports facing upward.

2 Device connection

The typical network topology of this switch is as shown below.



- Tips**
The switch supports auto MDI/MDIX. You can use either a straight through cable or a crossover cable to connect the switch to the Ethernet devices.

After connection, you can check whether the switch is connected properly or change its operating mode according to the following table.

LED Indicator/button	Description
Power	Solid on: The switch is powered on properly. Off: The switch is not powered on, or not powered on properly.
Link/Act	Solid on: The port is connected to a device, but no data is being transmitted over the port. Blinking: The port is connected to a device and data is being transmitted over the port. Off: The port is not connected or is not connected properly. A green LED indicator indicates that the negotiation rate of the port is 1000 Mbps, while an orange LED indicator indicates a rate of 10 Mbps or 100 Mbps.
VLAN	Solid on: VLAN mode is turned on. Ports 1 to 48 cannot communicate with each other, but can communicate with ports 47 to 50. Off: VLAN mode is turned off. The switch functions as an ordinary unmanaged switch, and all ports can communicate with each other.
Mode	VLAN on/off button. Used to turn on/off the VLAN mode.

Specifications

Model	TEG1050F
Port	10/100/1000 Mbps RJ45 port 48 1000 Mbps SFP port 2 independent SFP ports
Switching mode	Store-and-forward
MAC address table learning	Auto aging, auto learning
MAC address table	16 K
Dimensions (L x W x H)	440 mm x 240 mm x 44 mm
Input voltage	100 - 240V AC, 50/60Hz, 1.5A
Lightning protection	RJ45 port Common mode: 6 kV Power supply Common mode: 6 kV Differential mode: 4 kV
Operating environment	Temperature: 0°C - 45°C Humidity: (10% - 90%) RH, non-condensing
Storage environment	Temperature: -40°C - 70°C Humidity: (5% - 90%) RH, non-condensing
Data transmission rate	Ethernet: 10 Mbps (half duplex)/20 Mbps (full duplex) Fast Ethernet: 100 Mbps (half duplex)/200 Mbps (full duplex) Gigabit Ethernet: 2000 Mbps (full duplex)
Transmission media	Ethernet: CAT3 UTP/STP or better Fast Ethernet: CAT5 UTP/STP or better Gigabit Ethernet: CAT5e or CAT6 UTP/STP 1000Base-SX, MMF 1000Base-LX, MMF or SMF
Network standards	IEEE 802.3, IEEE 802.3u, IEEE 802.3x, IEEE 802.3ab, IEEE 802.3z

English

Характеристики

Модель	TEG1050F
Порт	Порт RJ45 10/100/1000 Мбит/с 48 Порт SFP 1000 Мбит/с 2 независимых SFP порта
Режим переключения	Сохранение и дальнейшая передача
выполнение	Изучение MAC-адресов Автоматическое старение, автоматическое обучение
Таблица MAC-адресов	16 К
Размеры (Д x Ш x В)	440 мм x 240 мм x 44 мм
Входное напряжение	100-240 В перем. тока, 50/60 Гц, 1,5 А
Порт RJ45	Обычный режим: 6 кВ
Источник питания	Обычный режим: 6 кВ Дифференциальный режим: 4 кВ
Рабочая среда	Температура: 0°C - 45°C Влажность: (10-90%) без конденсации
Условия хранения	Температура: -40°C - 70°C Влажность: (5-90%) без конденсации
Скорость передачи информации	Ethernet: 10 Мбит/с (полудуплексный)/20 Мбит/с (полудуплексный) Fast Ethernet: 100 Мбит/с (полудуплексный)/200 Мбит/с (полудуплексный) Гигабитный Ethernet: 2000 Мбит/с (полудуплексный)
Средства передачи	Ethernet: Кабель CAT3 UTP/STP или выше Fast Ethernet: Кабель CAT5 UTP/STP или выше Gigabit Ethernet: Кабель CAT5e или CAT6 UTP/STP 1000Base-SX, MMF 1000Base-LX, MMF или SMF
Стандарты сети	IEEE 802.3, IEEE 802.3u, IEEE 802.3x, IEEE 802.3ab, IEEE 802.3z

Русский

Спецификации

Модел	TEG1050F
Порт	10/100/1000 Mbps RJ45 порт 48 1000 Mbps SFP порт 2 независимых SFP порта
Технически показатели	Съхраняване и прераждане Обучение на MAC адреси Таблица с MAC адреси
Размери (Д x Ш x В)	440 mm x 240 mm x 44 mm
Входно напрежение	100 - 240 V AC, 50/60 Hz, 1,5 A
Мълниезащита	RJ45 порт Обычный режим: 6 kV Захранване Обы режим: 6 kV Дифференциален режим: 4 kV
Работна среда	Температура: 0°C - 45°C Влажност: (10% - 90%) RH, некондензираща
Среда за съхранение	Температура: -40°C - 70°C Влажност: (5% - 90%) RH, некондензираща
Скорост на предаване на данни	Ethernet: 10 Мбит/с (полудуплекс)/20 Мбит/с (полудуплекс) Бърз Ethernet: 100 Мбит/с (полудуплекс)/200 Мбит/с (полудуплекс) Гигабитен Ethernet: 2000 Мбит/с (полудуплекс)
Носители за предаване	Ethernet: CAT3 UTP/STP или по-добре Бърз Ethernet: CAT5 UTP/STP или по-добре Гигабитен Ethernet: CAT5e или CAT6 UTP/STP 1000Base-SX, MMF 1000Base-LX, MMF или SMF
Мрежови стандарти	IEEE 802.3, IEEE 802.3u, IEEE 802.3x, IEEE 802.3ab, IEEE 802.3z

Български

Spezifikationen

Modell	TEG1050F
Port	10/100/1000 Mbit/s RJ45-Port 48 1000 Mbit/s SFP-Port 2 unabhängige SFP-Ports
Leistung	Modus wechseln Speichern und weiterleiten MAC-Adressentabelle lernen Automatisches Altern, automatisches Lernen MAC-Adressentabelle 16 K
Abmessungen (L x B x H)	440 mm x 240 mm x 44 mm
Nennspannung	100 - 240 V AC, 50/60 Hz, 1,5 A
Blitzschutz	RJ45-Port Normaler Modus: 6 kV Stromversorgung Differenzialmodus: 4 kV
Betriebsumgebung	Temperatur: 0°C - 45°C Luftfeuchtigkeit: (10% - 90%) RH, nicht kondensierend
Lagerumgebung	Temperatur: -40°C - 70°C Luftfeuchtigkeit: (5% - 90%) RH, nicht kondensierend
Datenübertragungsrate	Ethernet: 10 Mbit/s (Halbduplex)/20 Mbit/s (Voll duplex) Fast Ethernet: 100 Mbit/s (Halbduplex)/200 Mbit/s (Voll duplex) Gigabit Ethernet: 2000 Mbit/s (Voll duplex)
Übertragungsmedien	Ethernet: CAT3 UTP/STP-Kabel oder höher Fast Ethernet: CAT5 UTP/STP-Kabel oder höher Gigabit Ethernet: CAT5e oder CAT6 UTP/STP 1000Base-SX, MMF 1000Base-LX, MMF oder SMF
Netzwerkstandards	IEEE 802.3, IEEE 802.3u, IEEE 802.3x, IEEE 802.3ab, IEEE 802.3z

Deutsch

Specifiche

Modello	TEG1050F
Porte	Porta RJ45 10/100/1000 Mbps 48 Porta SFP 1000 Mbps 2 porte SFP indipendenti
Prestazioni	Modalità switching Store-and-forward Apprendimento degli indirizzi MAC Auto invecchiamento, auto apprendimento Tabella degli indirizzi MAC 16 K
Dimensioni (L x P x A)	440 mm x 240 mm x 44 mm
Tensione di ingresso	100 - 240 V CA, 50/60 Hz, 1,5A
Protezione contro i fulmini	Porta RJ45 Modalità comune: 6 kV Alimentazione Modalità comune: 6 kV Differenziale: 4 kV
Ambiente operativo	Temperatura: 0°C - 45°C Umidità: 10% - 90% UR, senza condensa
Ambiente di immagazzinaggio	Temperatura: -40°C - 70°C Umidità: (5% - 90%) UR, senza condensa
Velocità di trasmissione dati	Ethernet: 10 Mbps (half duplex) / 20 Mbps (full duplex) Fast Ethernet: 100 Mbps (half duplex) / 200 Mbps (full duplex) Gigabit Ethernet: 2000 Mbps (full duplex)
Mezzi di trasmissione	Ethernet: Cavo UTP/STP CAT3 o superiore Fast Ethernet: Cavo UTP/STP CAT5 o superiore Gigabit Ethernet: Cavo UTP/STP CAT5e o CAT6 1000Base-SX, MMF 1000Base-LX, MMF o SMF
Standard di rete	IEEE 802.3, IEEE 802.3u, IEEE 802.3x, IEEE 802.3ab, IEEE 802.3z

Italiano

Technical Support

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Especificações Português

Modelo	TEG1050F
Porta	Porta RJ45 10/100/1000 Mbps 48 Porta SFP 1000 Mbps 2 portas SFP independentes
Modo de comutação	Guardar e retransmitir
Aprendizagem de endereços MAC	Envelhecimento automático, aprendizagem automática
Tabela de endereços MAC	16 K
Dimensões (C x L x A)	440 mm x 240 mm x 44 mm
Tensão de entrada	100-240V AC, 50/60Hz, 1,5 A
Proteção contra raios	Porta RJ45 Modo comum: 6 kV Fonte de energia Modo comum: 6 kV Modo diferencial: 4 kV
Ambiente operacional	Temperatura: 0°C - 45°C Humidade: (10% - 90%) de HR, sem condensação
Ambiente de armazenamento	Temperatura: -40°C - 70°C Humidade: (5% - 90%) de HR, sem condensação
Taxa de transmissão de dados	Ethernet: 10 Mbps (half duplex)/20 Mbps (full duplex) Fast Ethernet: 100 Mbps (half duplex)/200 Mbps (full duplex) Gigabit Ethernet: 2000 Mbps (full duplex)
Meios de transmissão	Ethernet: Cabo CAT3 UTP/STP ou superior Fast Ethernet: Cabo CAT5 UTP/STP ou superior Gigabit Ethernet: Cabo CAT5e ou CAT6 UTP/STP 1000Base-SX, MMF 1000Base-LX, MMF ou SMF
Padrões de rede	IEEE 802.3, IEEE 802.3u, IEEE 802.3x, IEEE 802.3ab, IEEE 802.3z

Especificaciones Español

Modelo	TEG1050F
Puerto	Puerto RJ45 de 10/100/1000 Mbps 48 Puerto SFP de 1000 Mbps 2 puertos SFP independientes
Modo de conmutación	Almacenar y retransmitir
Aprendizaje de direcciones MAC	Vencimiento automático, aprendizaje automático
Tabla de direcciones MAC	16 K
Dimensiones (L x An x Al)	440 mm x 240 mm x 44 mm
Voltaje de entrada	100 - 240 V CA, 50/60 Hz, 1,5 A
Protección contra rayos	Puerto RJ45 Modo común: 6 kV Fuente de alimentación Modo común: 6 kV Modo diferencial: 4 kV
Entorno de funcionamiento	Temperatura: 0-45°C Humedad: 10 %- 90% HR, sin condensación
Entorno de almacenamiento	Temperatura: -40-70°C Humedad: (5% - 90%) de HR, sin condensación
Velocidad de transmisión de datos	Ethernet: 10 Mbps (duplex medio)/20 Mbps (duplex completo) Fast Ethernet: 100 Mbps (duplex medio)/200 Mbps (duplex completo) Gigabit Ethernet: 2000 Mbps (duplex integral)
Medios de transmisión	Ethernet: Cable CAT3 UTP/STP o superior Fast Ethernet: Cable CAT5 UTP/STP o superior Gigabit Ethernet: Cable CAT5e o UTP/STP CAT6 1000Base-SX, MMF 1000Base-LX, MMF o SMF
Estándares de red	IEEE 802.3, IEEE 802.3u, IEEE 802.3x, IEEE 802.3ab, IEEE 802.3z

Español

Spécifications Français

Modèle	TEG1050F
Port	Port RJ45 10/100/1000 Mbps 48 Port SFP 1000 Mbps 2 ports SFP indépendants
Mode de commutation	Stockage et transmission
Apprentissage des adresses MAC	Auto vieillissement, auto apprentissage
Tableau des adresses MAC	16 K
Dimensions (L x W x H)	440 mm x 240 mm x 44 mm
Tension d'entrée	100-240V AC, 50/60Hz, 1,5A
Protection contre la foudre	Port RJ45 Mode commun : 6 kV Alimentation électrique Mode commun : 6 kV Mode différentiel : 4 kV
Environnement opérationnel	Température: 0°C - 45°C Humidité: (10 % - 90 %) HR, non-condensant
Environnement de stockage	Température: -40°C - 70°C Humidité: (5% - 90%) HR, non-condensant
Taux de transmission des données	Ethernet: 10 Mbps (semi duplex)/20 Mbps (duplex intégral) Fast Ethernet: 100 Mbps (semi duplex)/200 Mbps (duplex intégral) Gigabit Ethernet: 2000 Mbps (duplex intégral)
Support de transmission	Ethernet: CAT3 UTP/STP ou supérieur Fast Ethernet: CAT5 UTP/STP ou supérieur Gigabit Ethernet: CAT5e ou CAT6 UTP/STP 1000Base-SX, MMF 1000Base-LX, MMF ou SMF
Normes réseau	IEEE 802.3, IEEE 802.3u, IEEE 802.3x, IEEE 802.3ab, IEEE 802.3z

Français

Dane techniczne Polski

Model	TEG1050F
Port	Port RJ45 10/100/1000 Mb/s 48 Port SFP 1000 Mb/s 2 niezależne porty SFP
Wydajność	Tryb przełączania Zapis i przród MAC adresów MAC Nauka samodzielną, automatyczne starzenie Tabela adresów MAC 16 K
Wymiary (dł. x szer. x wys.)	440 mm x 240 mm x 44 mm
Napięcie wejściowe	100 - 240V AC, 50/60Hz, 1,5A
Ochrona odgromowa	Port RJ45 Tryb wspólny: 6 kV Zasilanie Tryb różnicowy: 4 kV
Środowisko pracy	Temperatura: 0°C - 45°C Wilgotność: (10% - 90%) wilgotności względnej, bez kondensacji
Środowisko przechowywania	Temperatura: -40°C - 70°C Wilgotność: (5% - 90%) wilgotności względnej, bez kondensacji
Szybkość transmisji danych	Sieć Ethernet: 10 Mb/s (podupłeks) / 20 Mb/s (duplex integralny) Szybka sieć Ethernet: 100 Mb/s (podupłeks) / 200 Mb/s (pełny duplex) Gigabitowa sieć Ethernet: 2000 Mb/s (pełny duplex)
Środki transmisji	Sieć Ethernet: Kabel CAT3 UTP/STP lub lepszy Szybka sieć Ethernet: Kabel CAT5 UTP/STP lub lepszy Gigabitowa sieć Ethernet: Kabel CAT5e lub CAT6 UTP/STP 1000Base-SX, MMF 1000Base-LX, MMF lub SMF
Standardy sieciowe	IEEE 802.3, IEEE 802.3u, IEEE 802.3x, IEEE 802.3ab, IEEE 802.3z

Polski

Specificații Română

Model	TEG1050F
Port	Port RJ45 10/100/1000 Mbps 48 Port SFP 1000 Mbps 2 porturi SFP independente
Performanță	Switching mode Store-and-forward MAC address table learning Auto aging, auto learning MAC address table 16 K
Dimensiuni (L x S x l)	440 x 240 x 44 mm
Tensiune de intrare	100 - 240 V c.a., 50/60 Hz, 1,5 A
Protecție împotriva descărcărilor electrice	Port RJ45 Mod obișnuit: 6 kV Sursa de alimentare Mod diferențial: 4 kV
Mediu de funcționare	Temperatura: 0°C - 45°C Umiditate: (10% - 90%) umiditate relativă, fără condens
Mediu de depozitare	Temperatura: -40°C - 70°C Umiditate: (5% - 90%) umiditate relativă, fără condens
Viteză de transmisie a datelor	Ethernet: 10 Mbps (semi duplex)/20 Mbps (duplex complet) Fast Ethernet: 100 Mbps (semi duplex)/200 Mbps (duplex complet) Ethernet Gigabit: 2000 Mbps (duplex complet)
Mediu de transmitere	Ethernet: Cablu CAT3 UTP/STP sau o versiune mai nouă Fast Ethernet: Cablu CAT5 UTP/STP sau o versiune mai nouă Ethernet Gigabit: CAT5e sau CAT6 UTP/STP 1000Base-SX, MMF 1000Base-LX, MMF sau SMF
Standard rețea	IEEE 802.3, IEEE 802.3u, IEEE 802.3x, IEEE 802.3ab, IEEE 802.3z

Română

Specifikáció Magyar

Model	TEG1050F
Port	10/100/1000 Mb/s RJ45 port 48 1000 Mb/s SFP port 2 szabad SFP port
Működés	Kapcsolási mód Tárol és továbbít MAC címtáblázat tanulás Auto invecskelés, automatikus öregedés MAC cím táblázat 16 K
Méretek (H x Sz x M)	440 mm x 240 mm x 44 mm
Bemeneti feszültség	100-240 V váltóáram, 50/60Hz, 1,5 A
Villámcsapás védelem	RJ45 port Közös üzemmód: 6 kV Táplálás Sorsa de differenciál: 4 kV
Működési környezet	Hőfok: 0°C - 45°C Páratartalom: 10 - 90% RH, nem kicsapódó
Tárolási környezet	Hőfok: -40°C - 70°C Páratartalom: 5 - 90% RH, nem kicsapódó
Adatátviteli sebesség	Ethernet: 10 Mb/s (fél duplex)/20 Mb/s (teljes duplex) Fast Ethernet: 100 Mb/s (fél duplex)/200 Mb/s (teljes duplex) Gigabit Ethernet: 2000 Mb/s (teljes duplex)
Átviteli közeg	Ethernet: CAT3 UTP/STP vagy gyorsabb kábel Fast Ethernet: CAT5 UTP/STP vagy gyorsabb kábel Gigabit Ethernet: CAT5e vagy CAT6 UTP/STP 1000Base-SX, MMF 1000Base-LX, MMF vagy SMF
Hálózati szabványok	IEEE 802.3, IEEE 802.3u, IEEE 802.3x, IEEE 802.3ab, IEEE 802.3z

Özellikler Türkçe

Model	TEG1050F
Port	10/100/1000 Mbps RJ45 portu 48 1000 Mbps SFP portu 2 bağımsız SFP portu
Performans	Anahtarlama modu Sakla ve gönder MAC adres öğrenme Otomatik yaşlanma, otomatik öğrenme MAC adres tablosu 16 K
Boyutlar (B x E x Y)	440 mm x 240 mm x 44 mm
Giriş Gerilimi	100 - 240V AC, 50/60 Hz, 1,5A
Yıldırım koruması	RJ45 portu Ortak mod: 6 kV Güç kaynağı Ortak mod: 6 kV Diferansiyel mod: 4 kV
Çalışma ortamı	Sıcaklık: 0°C - 45°C Nem: (10% - 90%) RH, yoğuşmaz
Depolama ortamı	Sıcaklık: -40°C - 70°C Nem: (5% - 90%) RH, yoğuşmaz
Veri iletimi hızı	Ethernet: 10 Mbps (yarı çift yönlü) / 20 Mbps (tam çift yönlü) Fast Ethernet: 100 Mbps (yarı çift yönlü) / 200 Mbps (tam çift yönlü) Gigabit Ethernet: 2000 Mbps (tam çift yönlü)
İletim Ortamları	Ethernet: CAT3 UTP/STP veya daha iyi Fast Ethernet: CAT5 UTP/STP veya daha iyi Gigabit Ethernet: CAT5e veya CAT6 UTP/STP 1000Base-SX, MMF 1000Base-LX, MMF veya SMF
Ağ Standartları	IEEE 802.3, IEEE 802.3u, IEEE 802.3x, IEEE 802.3ab, IEEE 802.3z

العربية الموصفات

Model	TEG1050F
المنفذ	منفذ RJ45 بسرعة 10/100/1000 Mbps 48 منفذ SFP بسرعة 1000 Mbps 2 منفذ SFP مستقلين
المنفذ	تحتفظ وتعيد إرسال تعليمات MAC جدول عناوين MAC 16K
الأبعاد (الطول x العرض x الارتفاع)	440 مم x 240 مم x 44 مم
جهود الإدخال	100 - 240V AC, 50/60 Hz, 1,5A
الحماية من البرق	منفذ RJ45 وضع مشترك: 6 كيلوفولت مصدر الطاقة وضع مشترك: 6 كيلوفولت وضع التفاضل: 4 كيلوفولت
بيئة التشغيل	درجة الحرارة: 0 درجة مئوية - 45 درجة مئوية الرطوبة: (10% - 90%) RH, بدون تكثف
بيئة التخزين	