

PoE Extender

➤ User Manual

EXT-104GAF / EXT-102GAF

English Deutsch
Italian French Spanish

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1 Overview

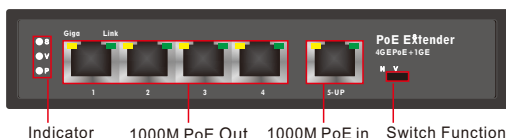
Solving the problem of power supply and long-distance network in monitoring project and wireless coverage project,our one input and one output/multi-extension device can realize up to 400 meters network and power transmission with power supply that is convenient for various engineering wiring.Besides,it adopts standard 12+36-power mode output and standard power-receiving mode input

Features

- ◆Support PoE standard:IEEE802.3af/at.
- ◆Support common PoE standard: IEEE802.3af/at(optional 45+78- non-standard power supply).
- ◆Single port power:30W.
- ◆Supports power-supply for PoE devices like AP and network surveillance cameras through Cat5/6 fast ethernet cables.
- ◆Flow control method:full duplex adapts IEEE802.3,halfduplex adapts Back pressure.
- ◆Port supports Auto MDI/MDIX.
- ◆Port supports lightning protection(secondary level requirements).
- ◆Exchanging Mechanism:store and forward.
- ◆Zero-configuration:automatically supply for adaptive devices.
- ◆Panel indicator monitors operating status and helps fault analysis.

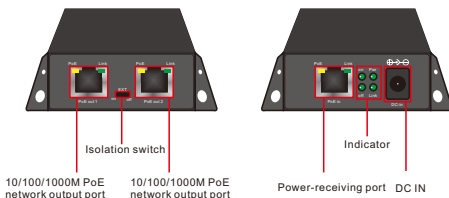
2 Product Display

1. EXT-104GAF, 4*10/100/1000M PoE port + 1*power-receiving port



DC Input port

2. EXT-102GAF, 2*10/100/1000M PoE port + 1*power-receiving port



Function Switch(1 in 4 out ethernet extender)

Mark	Mode	Description
N	Standard Normal	All ports communicate freely,adapting to common data transmission environment
S	Super Mode	Downlink speed limitation 10M(Super transmission:250 meters)
V	Port Isolation	Downlink isolateing from each other,uploads and downloads data through uplink

Function Switch(1 in 2 out ethernet extender)

Mark	Mode	Description
EXT	Port Isolation	Isolated downlink ports access each other to prevent network storm

Output mode selection Switch

1、2Down 3、4Up	1、2Up 3、4Down	1、2、3、4 Down	1、2、3、4 Up
12+36-output mode	45+78-output mode	8 chips output mode	Only network extension

Indicator

Indicator		Status	Description
Power LED:PWR		Always ON	Normal
		Always OFF	Power Unconnected
Super mode LED: Super		Always ON	Super mode ON
A		Always ON	1236 power supply
B		Always ON	4578 power supply
PoE LED	Orange	Always ON	Powered equipments connected and power supply normally
		Always OFF	No powered equipments connected or no power supply
	Green	Always ON	Network signal communicates at corresponding ports
		Always OFF	Network signal not communicate at corresponding ports

Accessories List

1*Switch 	1*User Manual +Warranty Card 	Optional power 
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3 Installation and attentions

For the safe installation operation of switch,suggestion:

- Check up that the power wire is securely wrapped into the AC power connecto or not.
- Ensure the adequate heat dissipation and ventilation around the switch.
- Do not stack heavy objects on the switch.

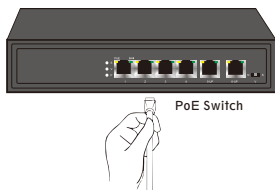
Desktop

When installing the switch on the desktop, The device must be placed flat on the table or on the ground.Please leave aside between the device and other surrounding objects



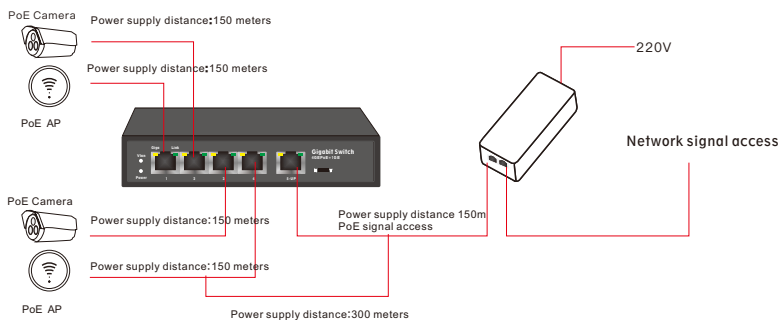
Specification of power receiving

The extender receives power by inserting Cat5/6 network cable into PoE switches or injectors. Please check before operation.

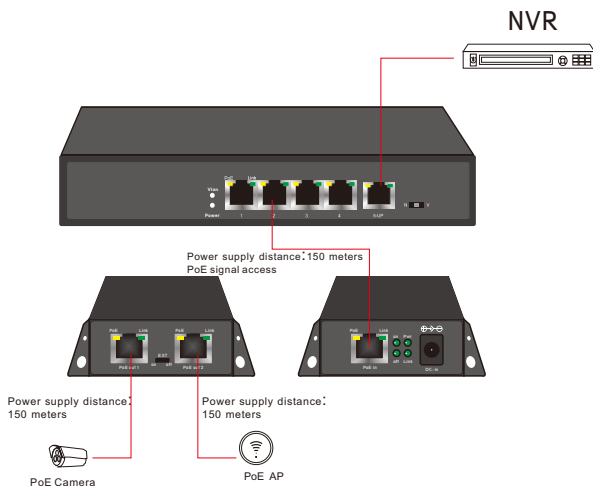


4 Application

1 in 4 Out Gigabit Extender Option



1 in 2 Out Gigabit Extender Option



5 Parameter

Model	EXT-104GAF	EXT-102GAF
Product	4 Port Gigabit PoE Extender	2 Port Gigabit PoE Extender
PoE power-receiving port	Standard PoE:IEEE802.3af/at Max received power:30W	
PoE output port	1/2(+) 3/6(-) Output power:MAX 30W/port	
Function	V:(Port Isolation)+S:(Super Mode)	EXT: Port Isolation
Watt	Standby power Consumption:≤5W; Full-load power Consumption:≤30W/90W;	Standby power Consumption: ≤3W; Full-load power Consumption: ≤30W
DC Input	As network extender: DC9-57V MAX 0.5A As PoE network extender: DC37-57V MAX 0.5A	
Network Protocol	IEEE802.3 IEEE802.3i 10BASE-T; IEEE802.3u 100BASE-TX; IEEE 802.3ab 1000BASE-T IEEE802.3x IEEE802.3af/at	
LED Indicator	P : Power LED V : Port Isolation LED S : Super Mode LED Port: (Orange=PoE LED+Green=Link LED)	Pwr:Power LED Port:(Orange=PoE LED+Green=Link LED) ON/OFF: EXT function LED Link:Network connection LED)
Power	1 Default ed configuration: No power 2 optional 12V 0.5A power as network extender 3 optional 52V 0.5A power used for single port PoE switch	
Port	1*PoE input port, 10/100/1000M RJ45 adaptive 4*PoE ouput port 10/100/1000M RJ45	1*PoE input port, 10/100/1000M RJ45 adaptive 2*PoE ouput port 10/100/1000M RJ45
Transmission Mode	Store and Forward(full wirespeed)	
Bandwidth	12Gbps	
Packet Forwarding	7.2Mpps	
MAC Address	2K	
Buffer	2.5M	
Transmission Distance	10BASE-T : Cat3,4,5 UTP(≤250 meter) 100BASE-TX : Cat5 or later UTP(150 meter) 1000BASE-TX : Cat6 or later UTP(150 meter)	
Operating Temperature/Humidity	-10 +55°C 5% 90% RH Non coagulation	
Storage Temperature/Humidity	-40 +75°C 5% 95% RH Non coagulation	
Product size /Packing size (L*W*H)	140mm*80mm*28mm 215mm*175mm*45mm	70mm*85mm*25mm 105mm*105mm*63mm
N.W/G.W (kg)	0.3kg/0.4kg	0.15kg/0.2kg
Installation	Desktop	
Lightning protection level	3KV 8/20us Ip30	

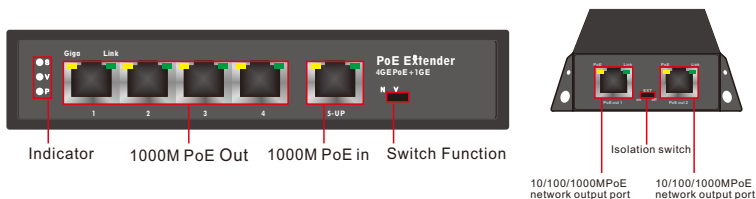
1 Übersicht

Das Problem der Stromversorgung und des Fernnetzes im Überwachungsprojekt und im drahtlosen Abdeckungsprojekt zu lösen, kann unser ein Eingang und ein Ausgang/Multi-Erweiterungsgerät bis zu 400 Meter Netzwerk und Stromübertragung mit Stromversorgung realisieren, die für verschiedene technische Verdrahtung bequem ist. Außerdem nimmt es Standard-12+36-Leistungsmodus-Ausgang und Standard-Leistungsempfängermodus-Eingang an

Merkmale

- Support PoE Standard: IEEE802.3af/at.
- Unterstützung gemeinsamer PoE-Standard: IEEE802.3af/at (optionales 45+78- Nicht-Standard-Netzteil). Leistung mit e
- nem Port: 30W. Unterstützt die Stromversorgung von PoE-Geräten wie AP- und Netz
- rküberwachungskameras über Cat5/6 schnelle Ethernet-Kabel.
- Durchflusssteuerungsmethode: Vollduplex passt IEEE802.3 an, Halbduplex passt Gegendruck an.
- Port unterstützt Auto MDI/MDIX.
- Port unterstützt Blitzschutz (Anforderungen der sekundären Ebene).
- Austauschmechanismus: speichern und weiterleiten. Null-Konfiguration: Automatische Versorgung für adaptive Geräte.
- Panel-Anzeige überwacht den Betriebszustand und hilft bei der Fehleranalyse.

2 Produktverteilung



Funktionsschalter (schneller Ethernet-Extender)

Mark	Mode	Description
N	Standard Normal	All ports communicate freely, adapting to common data transmission environment
S	Super Mode	Downlink speed limitation 10M(Super transmission:250 meters)
EXT	Super Mode	Downlink speed limitation 10M(Super transmission:250 meters)

Funktionsschalter (Gigabit Extender)

Mark	Mode	Description
EXT	Port Isolation	Isolated downlink ports access each other to prevent network storm

Auswahl des Ausgabemodus Schalter

1, 2Down 3, 4Up	1, 2Up 3, 4Down	1, 2, 3, 4 Down	1, 2, 3, 4 Up
12+36-output mode	45+78-output mode	8 chips output mode	Only network extension

Indikator

Indicator		Status	Description
Power LED:PWR		Always ON	Normal
		Always OFF	Power Unconnected
Super mode LED: Super		Always ON	Super mode ON
A		Always ON	1236 power supply
B		Always ON	4578 power supply
PoE LED	Orange	Always ON	Powered equipments connected and power supply normally
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	Green	Always ON	Network signal communicates at corresponding ports
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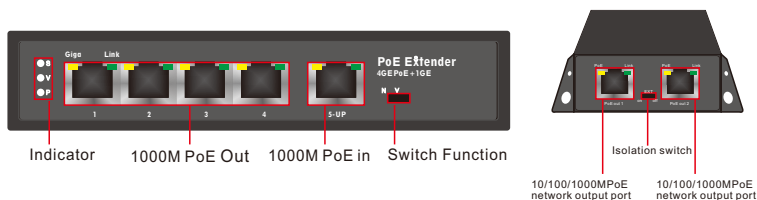
1 Panoramica

Risolvendo il problema dell'alimentazione elettrica e della rete a lunga distanza nel progetto di monitoraggio e nel progetto di copertura wireless, il nostro unico ingresso e un dispositivo di uscita / multi-estensione può realizzare fino a 400 metri di rete e trasmissione di energia con alimentazione che è conveniente per vari cavi di ingegneria. Inoltre, adotta l'uscita standard di modalità 12+36 e l'ingresso standard di modalità di ricezione di potenza

Caratteristiche

- Support PoE standard: IEEE802.3af/at.
- Supporto standard comune PoE: IEEE802.3af/at (opzionale 45+78- alimentatore non standard).
- Potenza singola porta: 30W.
- Supporta l'alimentazione per dispositivi PoE come AP e telecamere di sorveglianza di rete tramite cavi Ethernet veloci Cat5/6.
- Metodo di controllo del flusso: full duplex adatta IEEE802.3, halfduplex adatta la pressione posteriore.
- La porta supporta Auto MDI/MDIX.
- La porta supporta la protezione contro i fulmini (requisiti di livello secondario). Meccanismo di scambio: deposito e avanti.
- Zero-configurazione: aliment
- ione automatica per dispositivi adattivi.
- L'indicatore del pannello monitora lo stato operativo e aiuta l'analisi dei guasti.

2 Display del prodotto



Interruttore di funzione (1 in 4 out ethernet extender)

Mark	Mode	Description
N	Standard Normal	All ports communicate freely, adapting to common data transmission environment
S	Super Mode	Downlink speed limitation 10M(Super transmission:250 meters)
V	Port Isolation	Downlink isolateing from each other, uploads and downloads data through uplink

Interruttore di funzione (1 in 2 out ethernet extender)

Mark	Mode	Description
EXT	Port Isolation	Isolated downlink ports access each other to prevent network storm

Indicatore

Indicator		Status	Description
Power LED:PWR		Always ON	Normal
		Always OFF	Power Unconnected
Super mode LED: Super		Always ON	Super mode ON
A		Always ON	1236 power supply
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PoE LED	Orange	Always ON	Powered equipments connected and power supply normally
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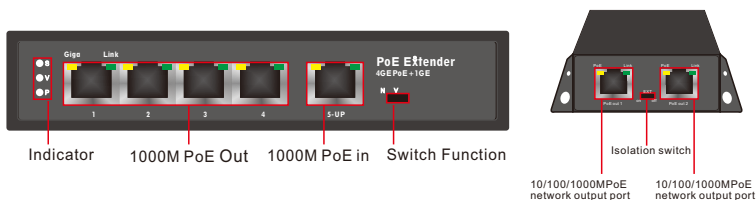
1 Généralités

Le problème de l'alimentation électrique et du réseau à distance dans le projet de surveillance et le projet de couverture sans fil a été résolu. Notre équipement d'entrée - sortie / Multi - extension peut réaliser le réseau et la transmission d'énergie jusqu'à 400 mètres. L'alimentation électrique est pratique pour le câblage de divers projets. En outre, il utilise la sortie standard en mode de puissance 12 + 36 et l'entrée standard en mode de réception de puissance

Caractéristiques

- Prise en charge de la norme Poe: IEEE802.3af / at.
- Prise en charge de la norme générale Poe: IEEE802.3af / at (option 45 + 78 - alimentation non standard).
- Puissance à port unique: 30W.
- Prise en charge de l'alimentation électrique des appareils Poe tels que les caméras de surveillance AP et réseau via le câble Ethernet rapide cat5 / 6.
- Méthode de contrôle du débit: IEEE 802.3 est utilisé pour le duplex complet et la contre - pression est utilisée pour le demi - duplex.
- Le port prend en charge le MDI / MDIX automatique.
- Le port supporte la protection contre la foudre (exigence de niveau II).
- Mécanisme d'échange: stockage et transfert. Configuration zéro: alimentation automatique des dispositifs adaptatifs.
- Les indicateurs de panneau surveillent l'état de fonctionnement et aident à l'analyse des défaillances.

2 Affichage du produit



Commutateur de fonction (expandeur Ethernet 1 - in - 4 - out)

Mark	Mode	Description
N	Standard Normal	All ports communicate freely, adapting to common data transmission environment
S	Super Mode	Downlink speed limitation 10M(Super transmission:250 meters)
V	Port Isolation	Downlink isolating from each other, uploads and downloads data through uplink

Commutateur de fonction (expandeur Ethernet 1 - in - 2 - out)

Mark	Mode	Description
EXT	Port Isolation	Isolated downlink ports access each other to prevent network storm

Commutateur de sélection du mode de sortie

1, 2Down 3, 4Up	1, 2Up 3, 4Down	1, 2, 3, 4 Down	1, 2, 3, 4 Up
12+36-output mode	45+78-output mode	8 chips output mode	Only network extension

Signal d'indication

Indicator		Status	Description
Power LED:PWR		Always ON	Normal
		Always OFF	Power Unconnected
Super mode LED: Super		Always ON	Super mode ON
A		Always ON	1236 power supply
B		Always ON	4578 power supply
PoE LED	Orange	Always ON	Powered equipments connected and power supply normally
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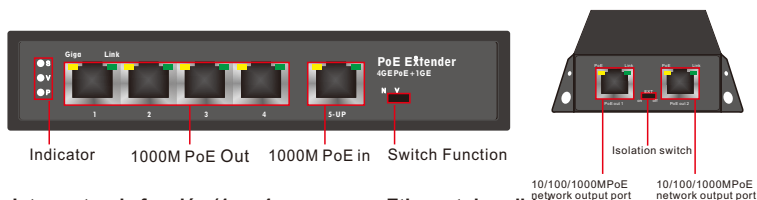
1 Panorama general

Resolvió el problema de la fuente de alimentación y la red remota en el proyecto de monitoreo y el proyecto de cobertura inalámbrica, uno de nuestros equipos de entrada - salida / Multi - Extensión puede realizar hasta 400 metros de red y transmisión de energía, el suministro de energía es conveniente para todo tipo de cableado de ingeniería. Además, utiliza la salida del modo de potencia estándar 12 + 36 y la entrada del modo de recepción de potencia estándar

Características

- Soporte estándar Poe: IEEE 802.3af / at.
- Soporta el estándar general Poe: IEEE 802.3af / at (opcional 45 + 78 - fuente de alimentación no estándar).
- Potencia de un solo puerto: 30w. Soporta el suministro de energía a dispositivos Poe como cámaras de vig
- Lancia de red y AP a través de un cable ethernet rápido cat5 / 6.
- Método de control de flujo: ieee802.3 se utiliza para todo el dúplex y contrapresión se utiliza para la mitad del dúplex. El puerto soporta auto MDI / mdix. El puerto soporta la protección con
- a rayos (requisito secundario). Mecanismo de intercambio: almacenamiento y reenvío. Configuración cero
- alimentación automática del dispositivo adaptativo.
- Los indicadores del panel monitorean el Estado de funcionamiento y ayudan en el análisis de fallos.

2 Visualización del producto



Interrupción de función (1 en 4 expansores Ethernet de salida)

Mark	Mode	Description
N	Standard Normal	All ports communicate freely, adapting to common data transmission environment
S	Super Mode	Downlink speed limitation 10M(Super transmission:250 meters)
V	Port Isolation	Downlink isolateing from each other, uploads and downloads data through uplink

Interrupción de función (1 en 2 expansores Ethernet de salida)

Mark	Mode	Description
EXT	Port Isolation	Isolated downlink ports access each other to prevent network storm

Selector de modo de salida

1、2Down 3、4Up	1、2Up 3、4Down	1、2、3、4 Down	1、2、3、4 Up
12+36-output mode	45+78- output mode	8 chips output mode	Only network extension

Señal de indicación

Indicator		Status	Description
Power LED:PWR		Always ON	Normal
		Always OFF	Power Unconnected
Super mode LED: Super		Always ON	Super mode ON
A		Always ON	1236 power supply
B		Always ON	4578 power supply
PoE LED	Orange	Always ON	Powered equipments connected and power supply normally
		Always OFF	No powered equipments connected or no power supply
	Green	Always ON	Network signal communicates at corresponding ports
		Always OFF	Network signal not communicate at corresponding ports

Attentions

To avoid equipment damage and personal injury caused by improper use, please follow the precautions as below:

!Keep the status of power-off during installation, and wear anti-static wrist to ensure good contact between anti-static wrist and skin to avoid the hidden danger.

!The extender can only operate normally under the correct power receiving mode.
Please confirm that the power-receiving voltage is consistent with the voltage marked on the extender.

!Before the extender power receiving, please make sure that it will not cause overload of the power circuit, so as not to affect the normal operation of the extender or even unnecessary damage

!In order to avoid the danger of electric shock, do not open the shell up when the extender works, even in the case of no live current, do not open.

!Before cleaning the extender, please disconnect the network cable first. Do not wipe it by using wet fabrics or liquid.

!Don't place other heavy objects on the surface of the extender to avoid accidents.



Get help or claim warranty

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