

NETGEAR[®]

BUSINESS

Small Business Expert

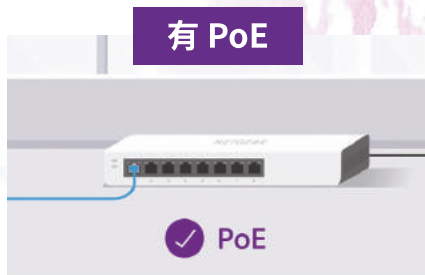
PoE Switch 系列

- 性價比高·穩定可靠·高 PoE 功率
- 全新 802.3bt 60W PoE++ Switch
- Insight App 遙距管理多個網絡



PoE = 數據傳輸 + 供電「2 合 1」

PoE (Power over Ethernet) 的意思是單一條 LAN 線就可做到數據傳輸及供電，令 PoE 設備的線材由 2 條 (電線 + LAN 線) 減省到 1 條，使設備部署更簡單、整潔，方便將設備放在沒有電源插座的位置如天花板等，亦可節省電源插座的安裝費用。NETGEAR 擁有逾 20 年出產優質商用 Switch 之經驗及技術，其 PoE Switch 產品線非常豐富，總有一款符合你所需。



PoE 的優點:

- 節省設備部署成本**
減少裝修時安裝的插座數量
- 無需機電工程師**
用現有之 IT 基建即可
- 適用於無電源插座的環境**
設備的擺放位置不受電源插座限制
- 一站式管理**
用 Switch 集中管理多台設備之供電

IEEE 803.bt 新標準: 單埠 PoE++ 輸出達 60W 以上!

目前市場普及的 PoE 標準主要分為兩種，分別是 15.4W 的 IEEE 802.3af PoE，以及 30W 的 IEEE 802.3at PoE。然而受制於 30W 電力，支援 PoE 或 PoE+ 的設備通常都是 VoIP 電話、AC / AX Wi-Fi Access Point、旋轉 IP Cam 攝錄機等。

為滿足市場對更高功率的需求，IEEE 就於 2019 年 1 月正式發表 802.3bt PoE++ 標準，使電力輸出高達 90W，足以為 LED 建築照明系統、新一代 VDI Thin Client 精簡型電腦、Kiosk 資訊服務站、Digital Signage 電子看板、入閘機、醫療系統、甚至是未來的電腦等設備供電，締造無限可能!



802.3bt L2 Switch	Gigabit 60W PoE++ 埠數	Gigabit 30W PoE+ 埠數	Gigabit Uplink 埠	PoE 總功率
GS110TUP	4	4	1G SFP & 1G BASE-T	240W
GS710TUP	8	8	1G SFP & 1G BASE-T	480W

	Type 1 802.3af	Type 2 802.3at	Type 3 802.3bt	Type 4 802.3bt		
	Class 3	Class 4	Class 5	Class 6	Class 7	Class 8
PSE 輸出 (如 Switch)	15.4W	30W	45W	60W	75W	90W
	2 對雙絞線			4 對雙絞線		
PD接收 (如 AP)	13W	25.5W	40W	51W	62W	71.3W

** 上述功率均對下兼容，即 802.3bt Switch 可連接 802.3at 較低功率之設備。

** 一般而言，802.3bt 使用 Cat 5e 線即可，但對於 100 米距離的 Class 8 (90W)，使用 Cat 6a 線能減少功率損失。

PoE 部署事例：如何計算所需 PoE 功率？

有甚麼設備連接 Switch?

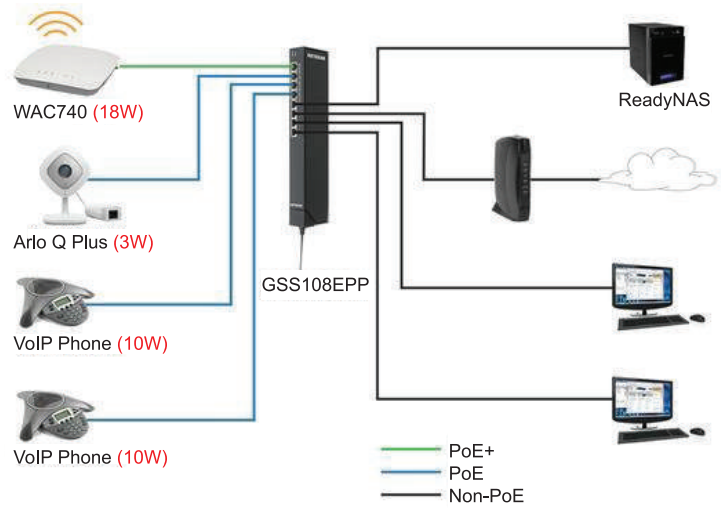
PoE AP、PoE IP Cam、
PoE VoIP Phone、
Non-PoE 電腦、
NAS 及 Router

各裝置所需之 PoE 功率?

WAC740 (18W) x 1
Arlo Q Plus (3W) x 1
VoIP Phone (10W) x 2

總共需要多少 PoE 功率?

41W



可以選擇哪款 Switch?

型號	埠位	PoE埠	PoE Budget
GSS108EPP	8 x GbE	4 x PoE+	47W



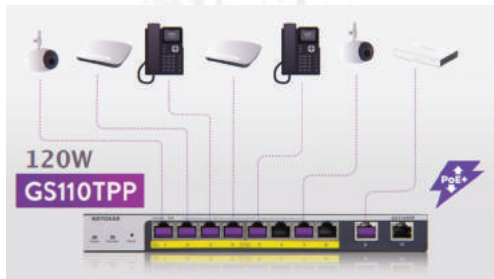
如果之後會增添更多設備，建議 PoE Budget 總供電功率預留多 20 - 30%。

NETGEAR FlexPoE

升級火牛即可提升 PoE 總功率

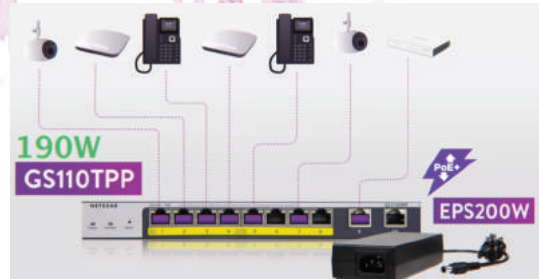
原裝火牛

GS110TPP 總功率為 120W



NETGEAR FlexPoE

轉用 EPS200W 火牛即可升級至 190W 總功率



NETGEAR FlexPoE 適用 Switch 型號：GS308PP, GS316P, GS116LP, GS110TPP 等；NETGEAR FlexPoE 升級火牛型號：EPS90W / EPS130W / EPS200W (** 每個型號所添加的 PoE Budget 各有不同)

好處

- 舊有用戶可單購 FlexPoE 火牛輕鬆提升 PoE Budget，毋需花費購買新 Switch
- 即使現在未確定需要多少 PoE Budget，或財政預算不足，都可先購買原裝火牛之 Switch，日後再加購大 Watt 數火牛進行升級。

NETGEAR Insight 遙距雲端管理

指定型號附加功能

NETGEAR Insight 系列包含多款 Switch、AP、VPN Router、ReadyNAS 及 Orbi Pro Mesh Wi-Fi，讓 IT 管理人員透過 Insight 手機 App 或 Web Portal 介面，一站式輕鬆管理總公司及各個分據點的所有 Insight 網絡設備。而且支援遙距登入，即使正值休假或到海外公幹，都可隨時用 App 監控網絡，並進行設定、重新開機或疑難排解，不受地域所限，尤其適合有多個門市、倉庫及辦公室的企業，或想簡化網絡管理的中小企。



節省時間

自動偵測設備
快速及簡單設置
一站式安裝



時刻安心

可監察 Wi-Fi 活動
網絡一旦中斷，隨即推送通知
手機 App 遙距重啟設備及更新韌體



隨時管理

一站式管理多個據點
顯示所有設備之實時狀態



NETGEAR PoE Switch 五大產品線

- 完整 PoE / PoE+ / PoE++ 產品線
- 由非網管型號至全網管型號均齊備

	Unmanaged	Smart Managed Plus	Smart Managed Pro	Insight Managed Smart Cloud	Fully Managed
	家庭及小型辦公室	小型辦公室	中小企	中小企 - 多個分公司網絡	企業
OSI 層級	L2	L2	L2 / L2+ / L3	L2+ / L3	L2+ / L3 / L4
管理介面		Web GUI	Web GUI	手機App / Web 遙距控制	Web GUI、CLI
網絡控制 (基本VLAN、QoS、IGMP、Link Aggregation)		Y (大部分型號)	Y	Y	Y
網絡安全 (Storm Control、Auto DoS)		Y	Y	Y	Y
進階VLAN 及QoS (MAC、Protocol、Voice、Auto-Voice、Auto-Video VLAN)			Y	Y	Y
進階安全			Y	Y	Y
L3 Static Routing、IPv6			Y	Y	Y
軟件定義網絡SDN Ready					Y
High Availability (HA)及 Redundancy備援					Y
Insight遙距雲端管理			Y (個別型號)	Y	
保養	3年 / 終身有限保養	終身有限保養	終身有限保養	5年	終身保養

Unmanaged GS108PP



- 價格相宜，8個Gigabit埠均為PoE+
- 「PP」系列特高功率，總功率高達123W
- 滿足小型辦公室一切所需 (8台PoE設備：IP Phone、IP Cam、Wi-Fi AP)
- 體積細小可掛牆
- 金屬外殼散熱佳

Multi-Gigabit Smart Managed Pro MS510TXPP



- IEEE 802.3bz (NBASE-T) 業界標準
- 無需花錢重新拉Cat6線，用原有之Cat5E線即可達2.5Gbps或5Gbps MultiGigabit (mGig) 速度
- 4個mGig + 4個1G Access埠
- 10G BASE-T 及 SFP+ Uplink 埠各一
- 8個Access Port均支援PoE+，總功率達180W

Smart Managed Pro GS752TTP



- 48個Gigabit埠均全部支援PoE+，無需擔心PoE+埠位不足
- 總功率高達760W，適合酒店、餐飲、教育及零售業
- 4個SFP埠，不但可作光纖Uplink，還可作Uplink備援及故障轉移
- 基於溫度及負載來自動調節風扇速度，25°C下的噪音僅為39.74 dBA，相對寧靜
- 支援升級至Insight雲端管理

Insight Cloud GC728XP



- 24個Gigabit埠全支援PoE+，總功率達390W
- 2個10G SFP埠及2個Gigabit SFP埠方便跨樓層連接Core Switch
- Insight單一平台管理所有分據點的Insight Switch、AP、Router及NAS
- 可遙距重新開機及排除故障
- 金屬外殼散熱佳

Fully Managed GSM4352PB (1000W 電源)



- 48個PoE+ Gigabit埠、2個10GBASE-T、2個10G SFP+、USB儲存埠、mini-USB及RJ45 to RS232 Console埠
- 支援Spine & Leaf Stacking，方便管理及提升負載平衡效能
- 可選用雙電源模組作備援，PoE總功率達860W (RPS模式)或1440W (EPS模式)
- 支援SDVoE (AV-over-IP)部署
- 無需額外授權即可支援動態L3路由(RIP / OSPF / VRRP / PIM / PBR)

NETGEAR 全線 PoE Switch

Model	Description	PoE Port	PoE Budget	Fans	Warranty
Unmanaged PoE Switch					
FS108P	8 port 10/100 Switch with 4 PoE (53W)	4 PoE	53W	Fanless	Limited Lifetime
FS116P	16 port 10/100 Switch w/ 8 PoE (70W)	8 PoE	70W	Fanless	Limited Lifetime
GS305P	5 port Gigabit Unmanaged Switch w/ 4 PoE (55.5W), Metal, Fanless	4 PoE	55.5W	Fanless	3-Year
GS305PP	5 port Gigabit Unmanaged Switch w/ 4 PoE (83W), Metal, Fanless, compact size	4 PoE+	83W	Fanless	3-Year
GS308P	8 port Gigabit Unmanaged Switch w/ 4 PoE (53W), Metal, Fanless	4 PoE	53W	Fanless	3-Year
GS308PP	8 port Gigabit Unmanaged Switch w/ 8 PoE+ (83W), Metal, Fanless	8 PoE+	83W (upgradable to 123W by EPS130W)	Fanless	3-Year
GS316P	16 port Gigabit Unmanaged Switch w/ 16 PoE+ (115W), Metal, Fanless	16 PoE+	115W (upgradable to 183W by EPS200W)	Fanless	3-Year
GS316PP	16 port Gigabit Unmanaged Switch w/ 16 PoE+ (183W), Metal, Fanless	16 PoE+	183W	Fanless	3-Year
GS324P	24 port Gigabit Unmanaged Switch (16 PoE+ Ports, 190W)	16 PoE+	190W	1	3-Year
GS324PP	24 port Gigabit Unmanaged PoE+ Switch (24 PoE+ ports, 380W)	24 PoE+	380W	2	3-Year
GS108PP	8 port Gigabit Unmanaged Switch w/ 8 PoE+ (123W), Metal	8 PoE+	123W	Fanless	Limited Lifetime
GS116LP	16 port Gigabit Unmanaged Switch w/ 16 PoE+ (76W), Metal, Fanless	16 PoE+	76W (upgradable to 115W by EPS130W)	Fanless	Limited Lifetime
GS116PP	16 port Gigabit Unmanaged Switch w/ 16 PoE+ (183W), Metal, Fanless	16 PoE+	183W	Fanless	Limited Lifetime
Plus PoE Switch					
GS105PE	Plus Switch, 5 port Gigabit w/ 2 PoE (22W), support PoE pass thru [No Power adapter included]	2 PoE	22W	Fanless	Limited Lifetime
GS108PE	Plus Switch, 8 port Gigabit w/ 4 PoE (53W)	4 PoE	53W	Fanless	Limited Lifetime
GS408EPP	Easy-Mount 8-port Gigabit PoE+ Switch (124W)	8 PoE+	124W	Fanless	Limited Lifetime
JGS516PE	Plus Switch, 16 port Gigabit w/ 8 PoE (85W)	8 PoE	85W	1	Limited Lifetime
JGS524PE	Plus Switch, 24 port Gigabit w/ 12 PoE (100W)	12 PoE	100W	1	Limited Lifetime
Click PoE Switch					
GSS108EPP	Click Switch, 8 port Gigabit w/ 4 PoE+ ports (47W)	4 PoE+	47W	Fanless	Limited Lifetime
Insight Managed Cloud Switch					
GC108P	8-port Gigabit PoE+ (64W) Insight Managed Smart Cloud FlexPoE Switch, Fanless	8 PoE+	64W	Fanless	5-Year
GC108PP	8-port Gigabit PoE+ (126W) Insight Managed Smart Cloud FlexPoE Switch, Fanless	8 PoE+	126W	Fanless	5-Year
GC110P	8-port Gigabit PoE (62W) Insight Managed Smart Cloud Switch w/ 2 SFP, Fanless	8 PoE	62W	Fanless	5-Year
GC510P	8-port Gigabit PoE+ (130W) Insight Managed Smart Cloud Switch w/ 2 SFP, rackmount kit	8 PoE+	130W	Fanless	5-Year
GC510PP	8-port Gigabit PoE+ (195W) Insight Managed Smart Cloud Switch w/ 2 SFP, rackmount kit	8 PoE+	195W	1	5-Year
GC728XP	Insight Managed 24-Port Gigabit PoE+ (390W) Smart Cloud Switch with 2 SFP and 2 SFP+ Fiber Ports	24 PoE+	390W	2	5-Year
GC752XP	Insight Managed 48-Port Gigabit PoE+ (505W) Smart Cloud Switch with 2 SFP and 2 SFP+ Fiber Ports	48 PoE+	505W	3	5-Year
Smart Managed Pro PoE Switch					
FS728TP	24 port 10/100 + 4 Gigabit Copper with 2 Combo SFP PoE Smart Switch (195W)	24 PoE	195W	1	Limited Lifetime
GS110TPv3	8 Port Gigabit PoE+ (55W) Smart Switch w/ 2 Gigabit SFP	8 PoE+	55W	Fanless	Limited Lifetime
GS110TPP	8-Port Gigabit PoE+ (120W) Ethernet Smart Managed Pro Switch w/ 2 Gigabit	8 PoE+	120W (upgradable to 190W by EPS200W)	Fanless	Limited Lifetime
GS510TLP	8 Port Gigabit PoE+ (75W) Smart Switch w/ 2 Gigabit SFP	8 PoE+	75W	Fanless	Limited Lifetime
GS510TPP	8 Port Gigabit PoE+ (190W) Smart Switch w/ 2 Gigabit SFP	8 PoE+	190W	1	Limited Lifetime
GS418TPP	16 Port Gigabit PoE+ (240W) Smart Switch w/ 2 Gigabit SFP	16 PoE+	240W	1	Limited Lifetime
GS516TP	16 Port Gigabit PoE Smart Switch with 8 PoE (76W)	8 PoE	76W	1	Limited Lifetime
GS724TPv2	24 Port Gigabit PoE+ Smart Switch w/ 2 dedicated SFP (190W)	24 PoE+	190W	2	Limited Lifetime
GS728TPv1	24 Port Gigabit PoE+ Smart Switch w/ 4 dedicated SFP & EPS (192W)	24 (first 8 PoE+ ports)	192W	2	Limited Lifetime
GS728TPv2	24 Port Gigabit PoE+ Smart Managed Pro Switch w/ 4 dedicated SFP & EPS (190W)	24 PoE+	190W	2	Limited Lifetime
GS728TPP	24 Port Gigabit PoE+ Smart Managed Pro Switch w/ 4 dedicated SFP & EPS (380W)	24 PoE+	380W	2	Limited Lifetime
GS752TPv1	48 Port Gigabit PoE/PoE+ Smart Managed Pro Switch w/ 4 dedicated SFP (384W)	48 (first 8 PoE+ ports)	384W	2	Limited Lifetime
GS752TPv2	48 Port Gigabit PoE+ Smart Managed Pro Switch w/ 4 dedicated SFP (380W)	48 PoE+	380W	2	Limited Lifetime
GS752TPP	48 Port Gigabit PoE+ Smart Managed Pro Switch w/ 4 dedicated SFP (760W)	48 PoE+	760W	2	Limited Lifetime
GS728TXP	S3300-28X-PoE+: 24 PoE+ (195W) Giga ports Stackable Smart Switch w/ 2 10G Copper & 2 SFP+	24 PoE+	195W up to 740W	2	Limited Lifetime
GS752TXP	S3300-52X-PoE+: 48 PoE+ (390W) Giga ports Stackable Smart Switch w/ 2 10G Copper & 2 SFP+	48 PoE+	390W up to 1440W	3	Limited Lifetime
MS510TXPP	8-Port PoE+(180W) Multi-Gigabit Smart Managed Pro Switch w/ 10G Copper/Fiber Uplinks	8 PoE+	180W	1	Limited Lifetime
GS110TUP	10-Port Gigabit Ultra60 PoE++ Smart Managed Pro Switch, external power adapter	4 PoE++ & 4 PoE+	240W	Fanless	Limited Lifetime
GS710TUP	10-Port Gigabit Ultra60 PoE++ Smart Managed Pro Switch, internal power supply	8 PoE++	480W	2	Limited Lifetime
Managed PoE Switch					
GSM7212F	M4100-12GF 12 port Fiber Gigabit L2+ Managed Switch with 4 PoE+ (150W)	4 PoE+	150W	2	Lifetime
GSM7224P	M4100-24G-POE+ 24 port Gigabit (4 shared SFP) Managed Switch w/ 24 PoE+ (380W)	24 PoE+	380W up to 720W	2	Lifetime
GSM7248P	M4100-50G-POE+ 50 port Gigabit (4 shared SFP) Managed Switch w/ 48 PoE+ (380W)	48 PoE+	380W up to 1440W	2	Lifetime
GSM4328PA	M4300-28G-POE+ 24x1G PoE+ Stackable switch (480W) w/ 2 10G-T + 2 10G SFP+ (550W PSU)	24 PoE+	480W up to 720W	3	Lifetime
GSM4328PB	M4300-28G-POE+ 24x1G PoE+ Stackable switch (720W) w/ 2 10G-T + 2 10G SFP+ (1000W PSU)	24 PoE+	720W	3	Lifetime
GSM4352PA	M4300-52G-POE+ 48x1G PoE+ Stackable switch (480W) w/ 2 10G-T + 2 10G SFP+ (550W PSU)	48 PoE+	480W up to 720W	4	Lifetime
GSM4352PB	M4300-52G-POE+ 48x1G PoE+ Stackable switch (860W) w/ 2 10G-T + 2 10G SFP+ (1000W PSU)	48 PoE+	860W up to 1440W	4	Lifetime
XSM4316PA	M4300-16X POE+ Stackable Managed Switch (299W)	16 PoE+	190W	1	Lifetime
XSM4316PB	M4300-16X POE+ Stackable Managed Switch (600W)	16 PoE+	500W	1	Lifetime