

產品介紹

CERIO

Force Power PoE++

www.cerio.com.tw

資訊綱要

什麼是 CERIO Force Power PoE++	3
為什麼需要 CERIO Force Power PoE++	4
誰需要 CERIO Force Power PoE++	5
Ethernet 傳輸速度	6
Low cable loss 低電纜損耗	7
產品介紹 & 應用	8
產品列表	16
資訊服務	17
技術客服聯絡方式	18

什麼是 CERIO Force Power PoE++?



CERIO Force Power PoE++ 網路電源供應器系列 提供了穩定的高功率硬體使用方案，透過 4Pair UTP 網路線傳輸，藉由此 Force Power PoE++ 網路電源供應器，即可透過 RJ45 網路線同時傳送網路資料與電力至 PD 受電的網路設備裝置。最大可支援超高速 10Gbps 乙太網路傳輸能力。



GIGABIT



MULTI-GIGA



10 GIGABIT

為什麼需要 CERIO Force Power PoE++ ?



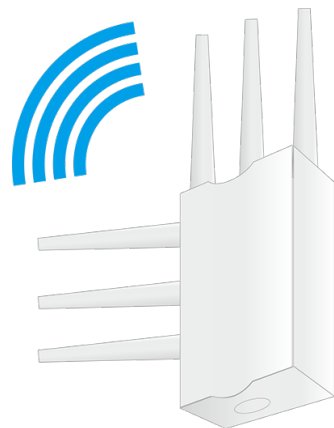
- 相容於 IEEE 802.3bt power 輸出等級
 - Type3/Class5 45Watt、Class6 60Watt
 - Type4/Class7 72Watt、Class8 90Watt
- 提供多種傳輸速率能力等級
 - Gigabit
 - Multi-Giga 1G/2.5G/5G
 - 10 Gigabit (5-speed 100M/1G/2.5G/5G/10G)
- 採用最新硬體Force Power高功率設計，利用4Pair UTP 網路線同時傳送網路資料與裝置所需求的網路電源。
- 提供了進階級的彈性應用、高靈活度的安裝與配置能力，簡化繁雜的佈線施工與人力成本。
- 隨插即用，不需任何軟體配置，為不易設置電源提供了更好的PoE 供電方式，為工業環境與業者網路規劃等提供了高經濟效益的解決方案。

誰需要 CERIO Force Power PoE++?



CERIO Force Power PoE++ 網路電源供應器系列，最為符合時下高功耗電力的設備所需如：

- AIO (All-in-One) touch PC
- PoE IP Speed Dome PTZ CAM 高速移動球型攝影機
- 最新 WiFi 6 世代 802.11ax 無線基地台
- 工業電腦
- 數位廣告看板
- 其他任何需高功耗電力之網路設備

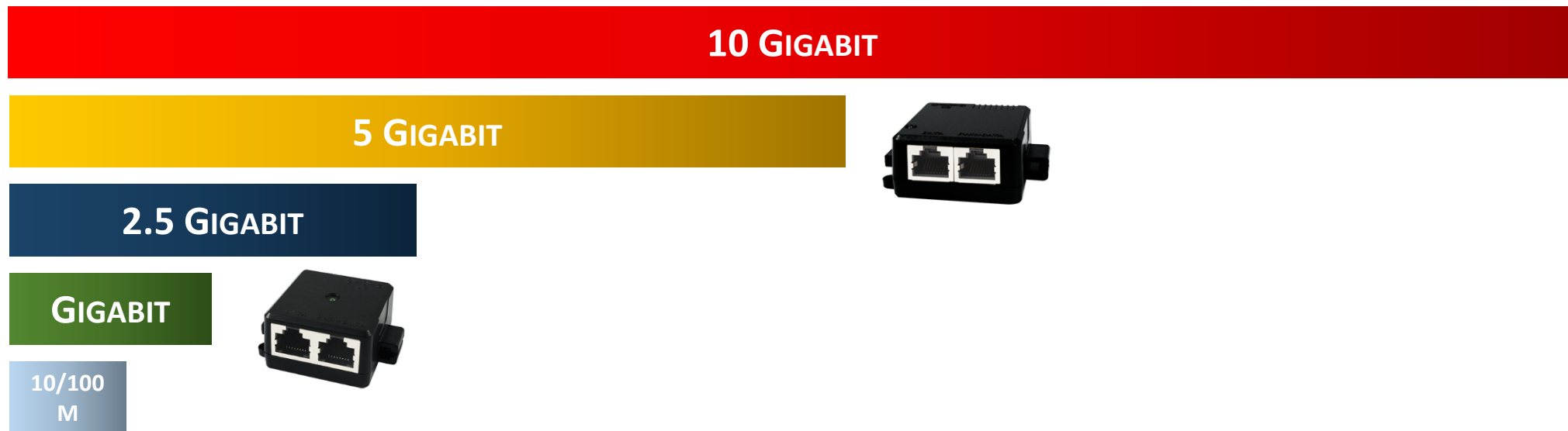


Ethernet 傳輸速度可達 10 Gigabit



CERIO Force Power PoE++ 網路電源供應器系列，提供超高速10Gbps乙太網路傳輸能力，並向下相容，支援 5-Speed (100M/1G/2.5G/5G/10G) 傳輸能力。

5-SPEED ETHERNET CONNECTION



Force Power Series for Cables Power Test

50V for FPOE-MG-90E / FPOE-PE-90E

With Cat.5e (24AWG)

With Cat.6 (23AWG)

With Cat.6A (23AWG)

56V 100Meter passthrough (Keep to 48V) Test

Distance (M)	Load Volt (V)		Load Amper (A)		Load Watt (Watt)		
	Meter	Voltage	Loss / %	AMP	Down/up %	Watt	Loss / W
1	55.2000	1~100Meter	1.63	1~100Meter	89.98	1~100Meter	1~100Meter
5	54.9132	-0.52%	1.63	-0.10%	89.42	-0.58	-0.62%
10	54.5547	-1.17%	1.63	-0.22%	88.73	-1.27	-1.39%
15	54.1962	-1.82%	1.62	-0.34%	88.03	-1.97	-2.16%
20	53.8377	-2.47%	1.62	-0.47%	87.34	-2.66	-2.94%
25	53.4792	-3.12%	1.62	-0.59%	86.65	-3.35	-3.71%
30	53.1207	-3.77%	1.62	-0.71%	85.96	-4.04	-4.48%
35	52.7622	-4.42%	1.62	-0.84%	85.28	-4.72	-5.25%
40	52.4037	-5.07%	1.61	-0.96%	84.59	-5.41	-6.03%
45	52.0452	-5.72%	1.61	-1.08%	83.91	-6.09	-6.80%
50	51.6867	-6.36%	1.61	-1.21%	83.23	-6.77	-7.57%
55	51.3282	-7.01%	1.61	-1.33%	82.55	-7.45	-8.34%
60	50.9697	-7.66%	1.61	-1.45%	81.87	-8.13	-9.12%
65	50.6112	-8.31%	1.60	-1.58%	81.19	-8.81	-9.89%
70	50.2527	-8.96%	1.60	-1.70%	80.51	-9.49	-10.66%
75	49.8942	-9.61%	1.60	-1.82%	79.84	-10.16	-11.44%
80	49.5357	-10.26%	1.60	-1.95%	79.16	-10.84	-12.21%
85	49.1772	-10.91%	1.60	-2.07%	78.49	-11.51	-12.98%
90	48.8187	-11.56%	1.59	-2.19%	77.82	-12.18	-13.75%
95	48.4602	-12.21%	1.59	-2.32%	77.15	-12.85	-14.53%
100M	48.1017	-12.86%	1.59	-2.44%	76.48	-13.52	-15.30%

Distance (M)	Load Volt (V)		Load Amper (A)		Load Watt (Watt)		
	Meter	Voltage	Down / %	AMP	UP / %	Watt	Loss / W
1	55.2000	1~100Meter	1.63	1~100Meter	90.00	1~100Meter	1~100Meter
5	54.94	-0.47%	1.64	0.54%	90.05	0.05	0.06%
10	54.61	-1.07%	1.65	1.21%	90.12	0.12	0.14%
15	54.29	-1.66%	1.66	1.88%	90.17	0.17	0.22%
20	53.96	-2.25%	1.67	2.55%	90.22	0.22	0.30%
25	53.63	-2.84%	1.68	3.22%	90.26	0.26	0.38%
30	53.30	-3.43%	1.69	3.89%	90.29	0.29	0.46%
35	52.98	-4.03%	1.70	4.56%	90.32	0.32	0.54%
40	52.65	-4.62%	1.72	5.23%	90.33	0.33	0.61%
45	52.32	-5.21%	1.73	5.90%	90.35	0.35	0.69%
50	52.00	-5.80%	1.74	6.57%	90.35	0.35	0.77%
55	51.67	-6.39%	1.75	7.24%	90.35	0.35	0.85%
60	51.34	-6.98%	1.76	7.91%	90.34	0.34	0.93%
65	51.02	-7.58%	1.77	8.59%	90.32	0.32	1.01%
70	50.69	-8.17%	1.78	9.26%	90.30	0.30	1.09%
75	50.36	-8.76%	1.79	9.93%	90.26	0.26	1.17%
80	50.04	-9.35%	1.80	10.60%	90.23	0.23	1.25%
85	49.71	-9.94%	1.81	11.27%	90.18	0.18	1.32%
90	49.38	-10.54%	1.83	11.94%	90.13	0.13	1.40%
95	49.05	-11.13%	1.84	12.61%	90.07	0.07	1.48%
100M	48.73	-11.72%	1.85	13.28%	90.00	0.00	1.56%

Distance (M)	Load Volt (V)		Load Amper (A)		Load Watt (Watt)		
	Meter	Voltage	Down / %	AMP	UP / %	Watt	Loss / W
1	55.2000	1~100Meter	1.63	1~100Meter	90.00	1~100Meter	1~100Meter
5	54.96	-0.44%	1.64	0.52%	90.07	0.07	0.08%
10	54.65	-0.99%	1.65	1.17%	90.15	0.15	0.18%
15	54.35	-1.54%	1.66	1.82%	90.23	0.23	0.28%
20	54.05	-2.09%	1.67	2.47%	90.30	0.30	0.38%
25	53.75	-2.64%	1.68	3.12%	90.36	0.36	0.48%
30	53.44	-3.18%	1.69	3.77%	90.41	0.41	0.58%
35	53.14	-3.73%	1.70	4.42%	90.46	0.46	0.68%
40	52.84	-4.28%	1.71	5.06%	90.51	0.51	0.78%
45	52.53	-4.83%	1.72	5.71%	90.54	0.54	0.88%
50	52.23	-5.38%	1.73	6.36%	90.58	0.58	0.98%
55	51.93	-5.93%	1.74	7.01%	90.60	0.60	1.08%
60	51.62	-6.48%	1.76	7.66%	90.62	0.62	1.18%
65	51.32	-7.03%	1.77	8.31%	90.63	0.63	1.28%
70	51.02	-7.58%	1.78	8.96%	90.63	0.63	1.38%
75	50.71	-8.13%	1.79	9.61%	90.63	0.63	1.48%
80	50.41	-8.67%	1.80	10.26%	90.62	0.62	1.59%
85	50.11	-9.22%	1.81	10.91%	90.61	0.61	1.69%
90	49.81	-9.77%	1.82	11.56%	90.59	0.59	1.79%
95	49.50	-10.32%	1.83	12.21%	90.56	0.56	1.89%
100M	49.20	-10.87%	1.84	12.86%	90.53	0.53	1.99%

CERIO Force Power PoE ++ 提供了低電纜損耗，可以保持原始電源長達100米的距離。

- ➡ 搭配 Cat.6 或以上電纜 可維持來源電力最大可達 **90W**
- ➡ 搭配 Cat.5e 可維持來源電力最大可達 **76W**

Force Power PoE++ 網路電源供應器產品系列

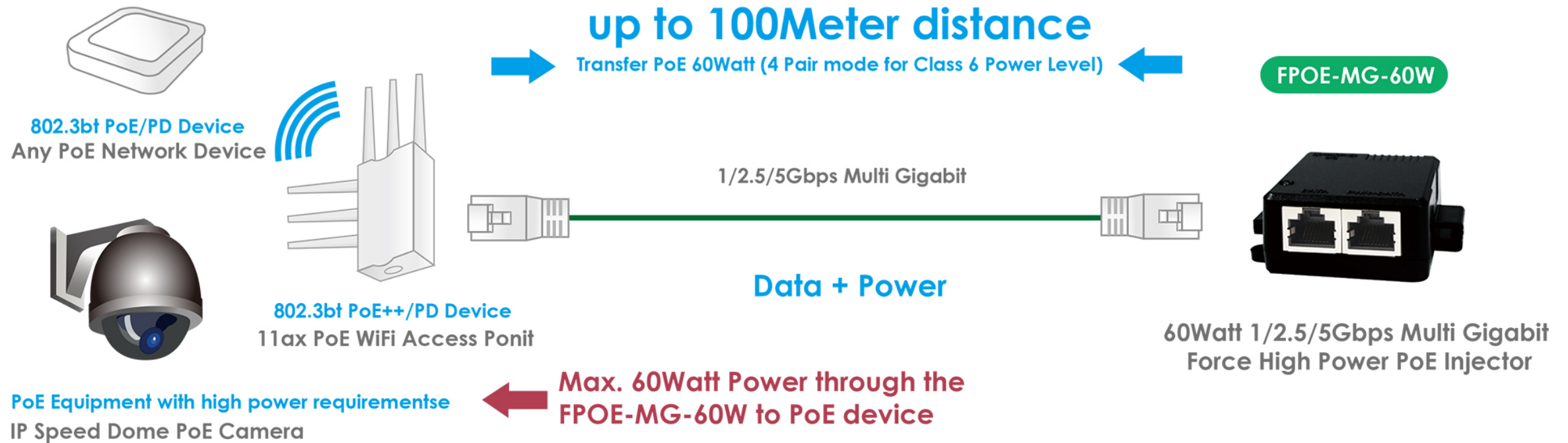
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CERIO Force Power PoE++ 網路電源供應器系列 提供 **Gigabit , Multi-Giga (1/2.5/5G) and 10 Gigabit** 乙太網路傳輸能力，可對需求IEEE 802.3bt Type3/Class5 45Watt、Class6 60Watt PoE 電力層次的PoE/PD受電設備，提供穩定的PoE網路供電。



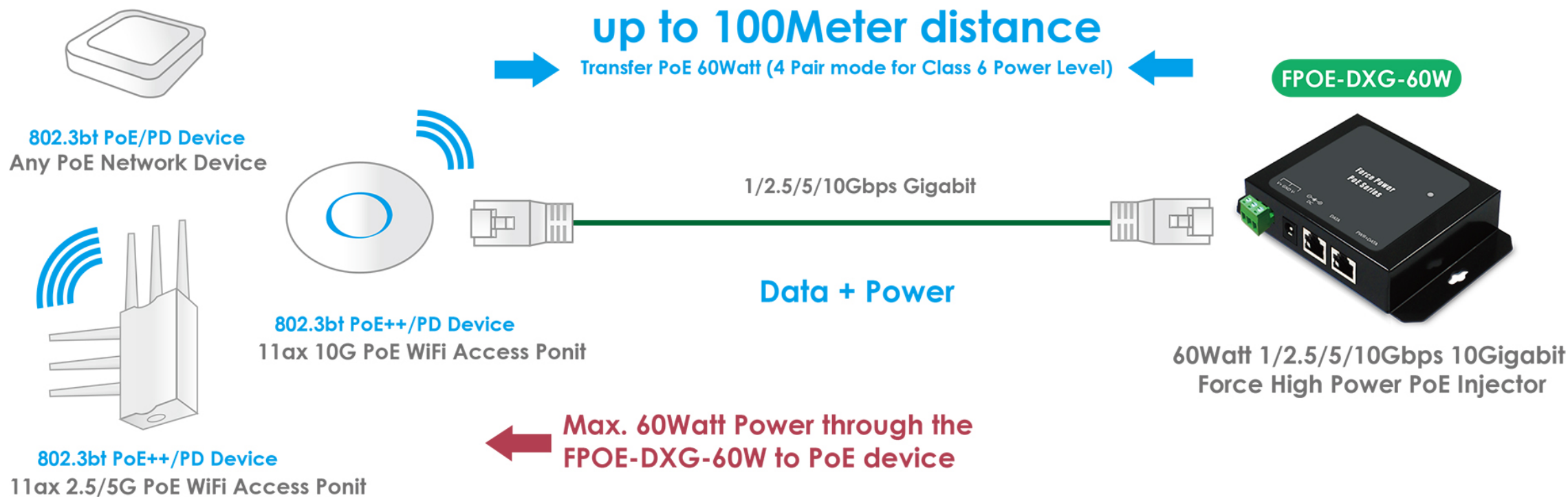
Force Power applied to PoE Output for 802.3bt/at/af PoE Multi Giga Device

POE 1/2.5/5Gbps Multi Gigabit Device



Force Power applied to PoE Output for 802.3bt/at/af PoE 10 Giga Device

POE 1/2.5/5/10Gbps XG Gigabit Device



Force Power Edge PoE 網路電源供應器系列

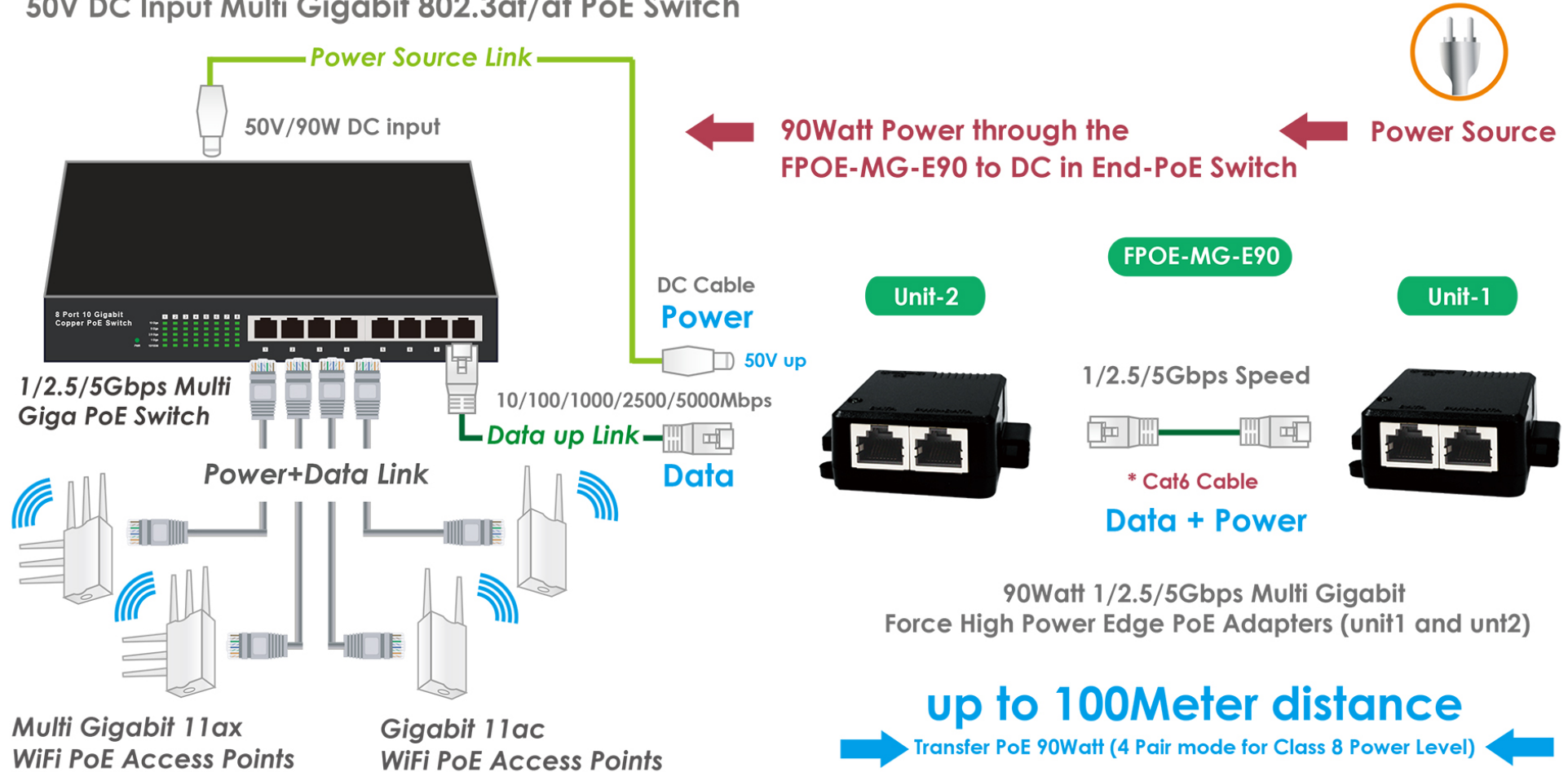


Cerio Force Power Edge PoE 邊際網路電源傳輸器可透過4Pair UTP網路線傳輸進行供電單元輸出與受電單元連接後，透過乙太網路線作為PoE電力延伸予邊際PoE電源主幹傳輸使用，對邊際網路的電源需求設備 (如小型PoE交換器) 提供基本電力所需，即是同時透過RJ45網路線傳送資料與電力至無DC電源設施的邊際區域，而不受一般傳統插座距離與地點的限制。



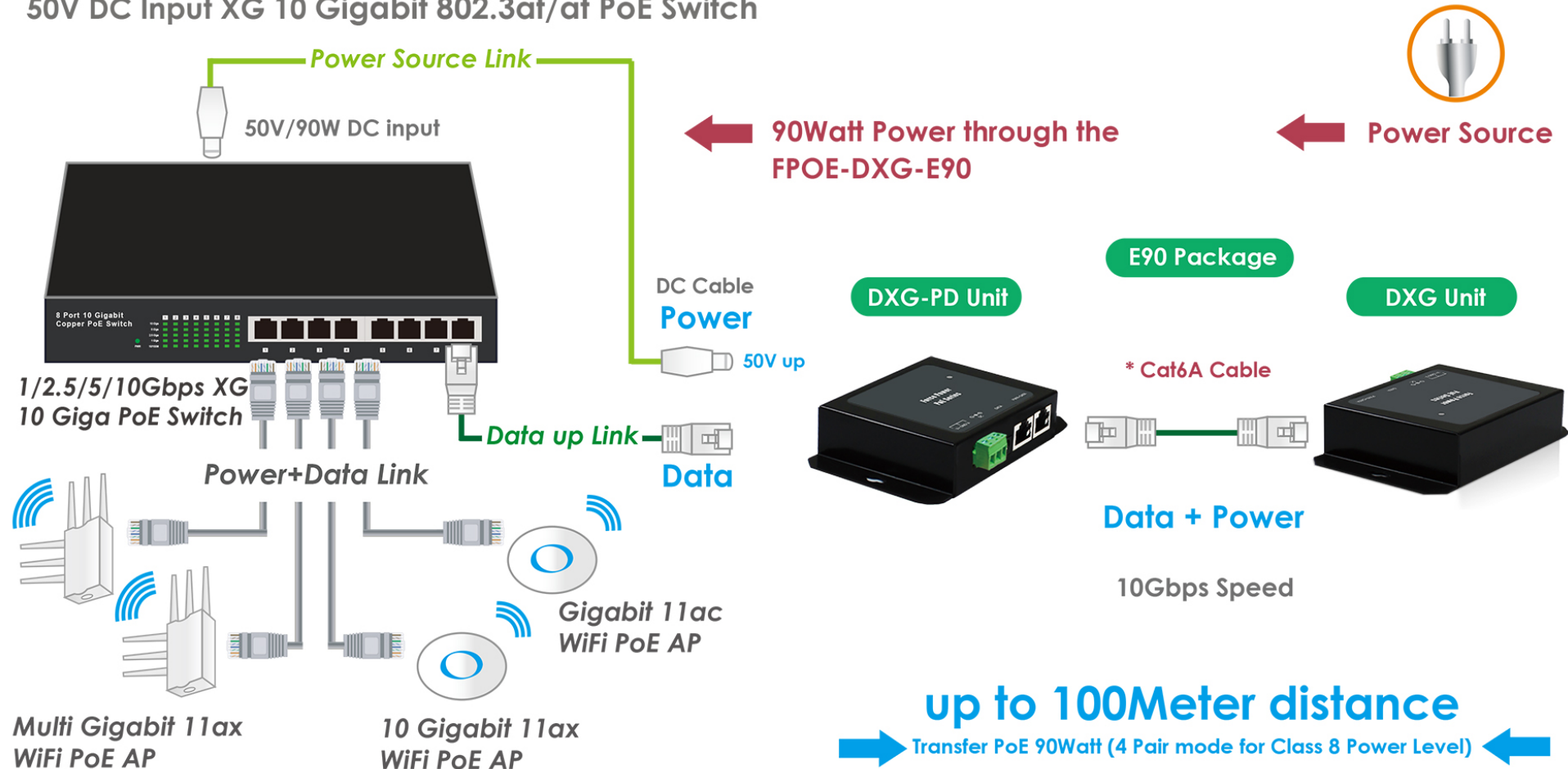
Force Power Edge PoE Solution Output to 50VDC to End-PoE Switch

50V DC Input Multi Gigabit 802.3af/at PoE Switch



Force Power Edge PoE Solution Output to 50VDC to XG End-PoE Switch

50V DC Input XG 10 Gigabit 802.3af/at PoE Switch



Force Power PoE++ PD Splitter 網路電源接收分配器系列

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CERIO Force Power PD Splitter 網路電源接收分配器系列提供 Gigabit , Multi-Giga(1/2.5/5G) 及 10 Gigabit 乙太網路傳輸能力。藉由PoE 50V~57V 網路電源 + Data資料輸入後，分配拆解出DC電力輸出和RJ45網路埠資料輸出，且經拆解電力之DC輸出電源可調整為12V, 19V或24V電壓輸出。此高功率Force Power分配器允許一般無POE設計的設備直接升級為POE支援應用，可用於佈署環境中沒有電源插座的遠程非PoE設備，帶來極大的便利。



Force Power PoE++ PD Splitter 產品應用



Cerio Force High Power Multi Gigabit Splitter applied to Non-PoE devices from 12V to 24VDC



Max.
Forward 60Watt DC
Power through the Splitter

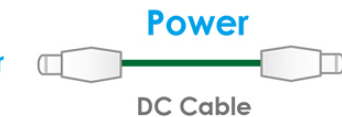
12V~24V 11ac/11ax DC Input
Multi-Giga WiFi Access Point



12V~24V DC Input
Multi-Giga Switch



12V~24V DC Input
Multi-Giga INDUSTRIA PC



DC Power
12V
19V
24V(Max.)

up to 100Meter distance
Transfer PoE 60Watt (4 Pair mode for Class 6 Power Level)

FPOE-MG-60W



60Watt 1/2.5/5Gbps Multi Gigabit
Force High Power PoE Injector
(This model is by optional)

FPOE-MPD80



Force High Power 1/2.5/5Gbps
Multi Gigabit Splitter



FPOE-MG-E90



90Watt 1/2.5/5Gbps Multi Gigabit
Force High Power PoE Adapter
(This model is by optional)










up to 100Meter distance
Transfer PoE 90Watt (4 Pair mode for Class 8 Power Level)

Unit-1

* The force high power splitter allows a non compliant device to upgrade to PoE ,It is used to deploy remote non-PoE devices with no nearby AC outlets.

4Pair Force Power PoE++ Adapter 產品列表



PRODUCT MODEL	FPOE-PE-60W	FPOE-MG-60W	FPOE-DXG-60W	FPOE-PE-E90	FPOE-MG-E90	FPOE-DXG-E90	FPOE-PD80	FPOE-MPD80	FPOE-XP80
PRODUCT PHOTO									
PRODUCT TYPE	PoE Injector	PoE Injector	PoE Injector	PoE Injector	PoE Injector	PoE Injector	PD Splitter	PD Splitter	PD Splitter
ETHERNET SPEED	Gigabit	Multi-Giga 1/2.5/5G	10 Gigabit 5-Speed (100M/ 1G/2.5G/5G/10G)	Gigabit	Multi-Giga 1/2.5/5G	10 Gigabit 5-Speed (100M/ 1G/2.5G/5G/10G)	Gigabit	Multi-Giga 1/2.5/5G	10 Gigabit 5-Speed (100M/ 1G/2.5G/5G/10G)
MAX PoE POWER	60W	60W	60W	90W	90W	90W	80W	80W	80W
INPUT VOLTAGE	50-57V	50-57V	50-57V	50-57V	50-57V	50-57V	50-57V	50-57V	50-57V
OUTPUT VOLTAGE	56V	56V	56V	56V	56V	56V	12V/19V/24V	12V/19V/24V	12V/19V/24V
POWER INTERFACE (OUTPUT)	POE out	POE out	DC out	POE out	POE out	DC out	DC out	DC out	DC out
POWER INTERFACE (INPUT)	DC in	DC in	DC in or STB in	DC in	DC IN	DC in or STB in	POE in	POE in	POE in
OPERATING TEMPERATURE	0° to 55° C	0° to 55° C	0° to 65° C	0° to 55° C	0° to 55° C	0° to 65° C	0° to 55° C	0° to 55° C	0° to 55° C
DIMENSION (MM) WEIGHT (G)	54*41*23 32g	64.8*51.7*24 41g	130*82*27 229g	54*41*23 PSE/PD: 32g/32g	64.8*51.7*24 PSE/PD: 41g/41g	130*82*27 PSE/PD: 229g/225g	84.5*80*39.5 93g	84.5*80*39.5 96g	84.5*80*39.5 105g
CABLING	Cat. 5e/6	Cat. 5e/6	Cat. 6a or up	Cat. 5e/6	Cat. 5e/6	Cat. 6a or up	Cat. 5e/6	Cat. 5e/6	Cat. 6a or up

資訊服務



發明 & 創新

智鼎資訊擁有堅強RD實力團隊並結合無線創新技術及理念以提供用戶及企業最佳的網路環境



無線解決方案

智鼎資訊擁有經驗豐富的韌體/硬體工程師及專業的業務團隊可針對飯店無線網路架設專案提供完美的解決方案 (如 飯店、長距離PTP 無線網路架設，學校, 政府單位等)



韌體研發技術

智鼎資訊專業團隊研發的韌體提供用戶高端技術及簡易操作介面，並支援集中控制AP管理軟體



專業客戶服務

智鼎資訊客服團隊提供專業技術諮詢及優質服務

技術客服聯絡方式

CERIO

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