



Unlimited Indoor/Outdoor AP Scalability in a Unified Management System

Breakthrough Capacity up to 750 Mbps

Intuitive UniFi Controller Software

Hotspot Management – Customization and Built-In Billing Options



UniFi AP solution????????? WiFi network???????????, ?????(Indoor)???(Outdoor)???....

???????

- WiKi: http://wiki.ubnt.com/Main_Page
- Knowledge Base: <https://community.ubnt.com/t5/tkb/communitypage>
 - ? [UniFi Controller Installation](#)
 - ? [UniFi - Install controller software on CentOS](#)

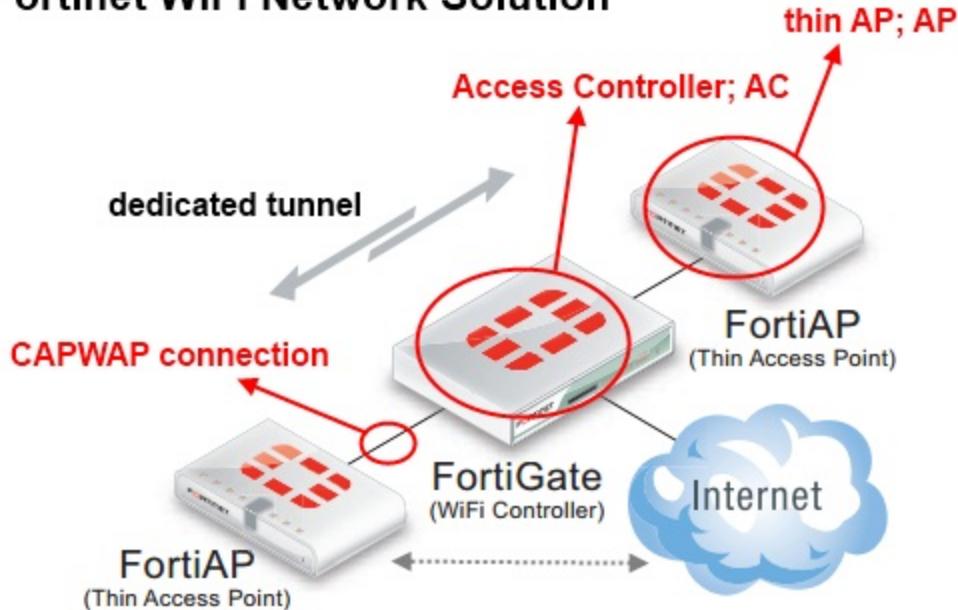
?????

- [AWS-based?????\(Cloud-based controller\)](#)
- [DSCP/COS????\(QoS\)??](#)
- [VLAN??BYOD????](#)
- [Wireless Uplink](#)
- [??\(inform\)AC](#)

????

UniFi AP system????wireless network???????????, ?????(indoor)???(outdoor)???. ???AP(wireless router)?
???, ?????thin AP???, ?????AC(Access Controller)??????????(Central Management), AC????????thin AP???, ??
?AP+AC?????????, AC????????(????), ?????client?????. ???Fortinet?AC+AP solution, ???CAPWAP??tunnel:

Fortinet WiFi Network Solution



Forinet???AC+AP solution, ?AC???????????, ???client??????, AP?AC????CAPWAP(udp, 5246;5247)?tunnel??, ?
UnFi AP system??????, AC????client??????, ?AP?AC?????tunnel, ??????????????. UniFi AP system?????????:

1. thin AP?????AC??????.
2. AP?AC?????tunnel??, AC????client??????.
3. thin AP?????wireless bridge, L3??????, ??IP addressing??????NAT??.
4. ?????traffic-shaping??, ???WME(WMM)??, ??QoS(????????DSCP).
5. ??Guest Control, ???????; ??User/Group Management.
6. ??Wireless Uplink.
7. ??????????(Detailed Analytics).
8. ?????(Roaming; Zero Handoff Roaming).
9. ?????PoE??(??????).
10. ?????, AC???????????, ????????????

UniFi AP system?????AC?????, ????????????????, ??????x86 PC????. AC????Web-based manager??AP?????.

The screenshot shows the UniFi Network Management System interface. At the top, it displays network statistics: Access Points (1 connected, 1 disconnected), Stations (0 pending, 1 users, 0 guests), and a Refresh interval of "Every 5 seconds". Below the stats is a navigation bar with tabs: Map, Statistics, Access Points, Users, Guests, and All Clients. The main area features a floor plan with a highlighted access point. A detailed configuration window is open for the selected AP, showing its MAC address (00:27:22:b4:ee:66) and status as "Connected". The window includes tabs for Details, Users, Guests, and Configuration, and a section for Overview with the following data:

MAC Address	00:27:22:b4:ee:66
Model	UniFi AP
Version	2.3.9.1693
IP Address	10.3.1.10
Uptime	2h 23m 48s
# Users	1
# Guests	0

Below the configuration window, there are buttons for "locate" and "restart". At the bottom of the interface, there are tabs for Recent Events, Alerts (with 1 alert), Settings, and Admin. Under the Admin tab, several management links are listed:

- System**: System related settings
- Wireless Networks**: Wireless Networks
- Guest Control**: Guest portal and policies
- Blocked Devices**: List of blocked wireless devices
- Admin Settings**: Admin username, password and preferences
- User Groups**: User Group settings

????thin AP??????, ???AC??????????, ??????????????thin AP??????.

thin AP Discovery

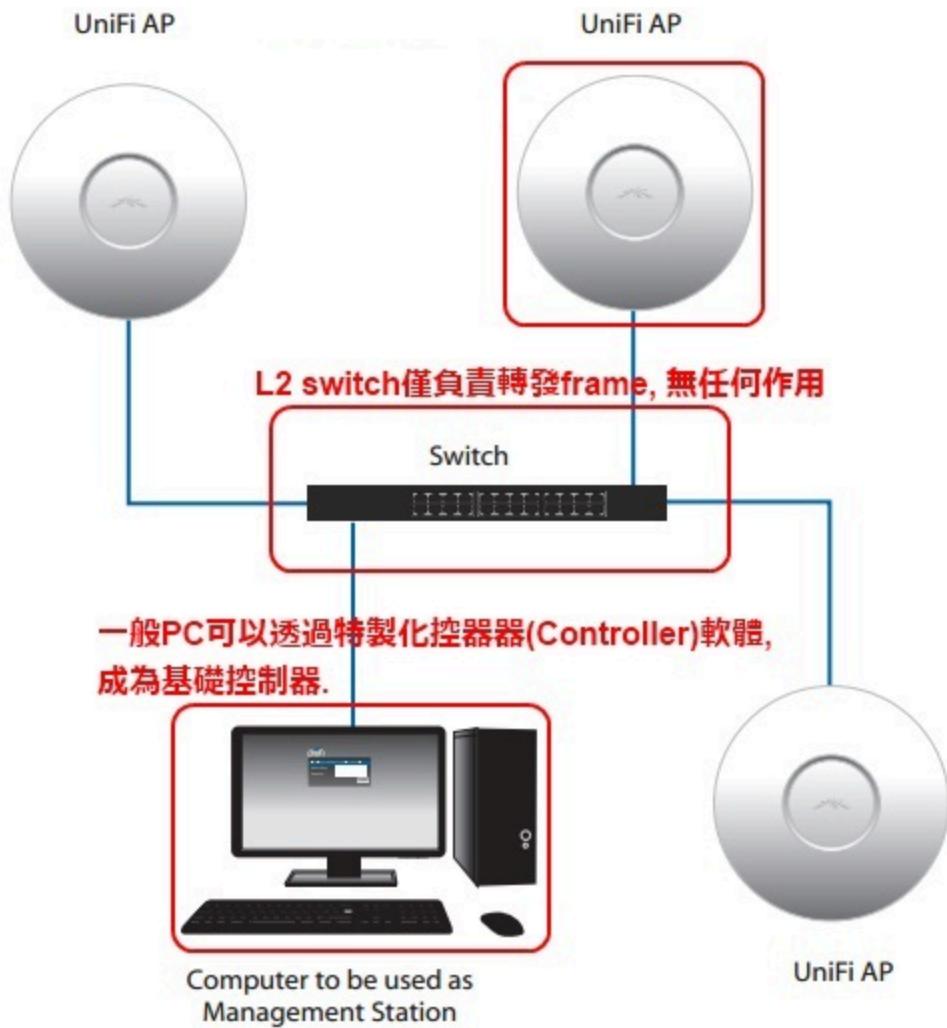
thin AP??????, ?????????AC????. ??, thin AP??AC?????. ?UniFi AP system??AC?discovery?????L2?L3???. re-writting...

3. ??????, ??????????.

4. ???????AC??, AC??????????, ??????L3??????????, ?tunnel??.

5. ???????????????, ???????????????????, ex: RouterOS.

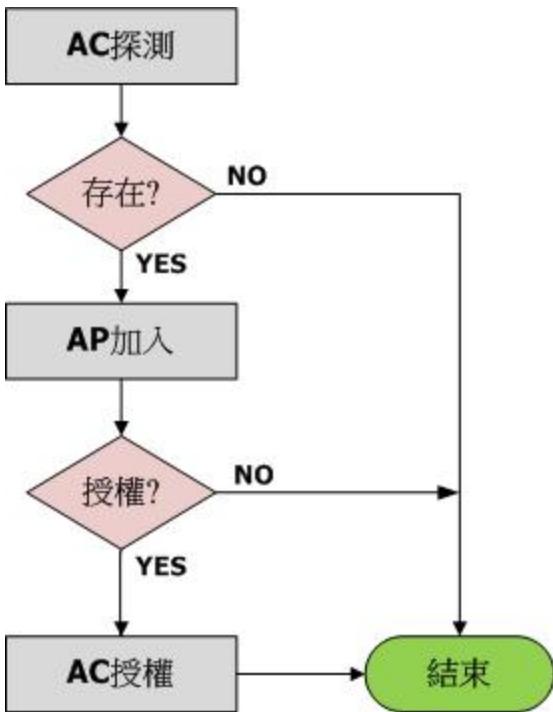
6. ?????????????L3??, UniFi AP solution???client?????.



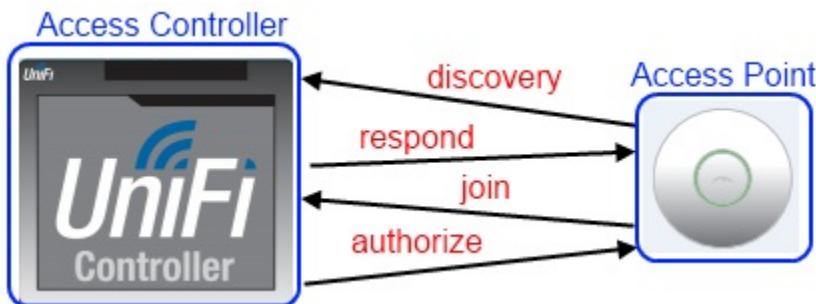
????UniFi AP solution???AC+AP??????????, ???????????????, ??????AP?????:

AP?????, ??????discovery?????. ??????, ??????????.

??????????, ???????????????, ?????:



?????????AP????AC??, ???AC??, ?????! ??AC????AP, ???AP?AC?????. ????????????, AP????AC?????L3?????, ?????L2 network, ??????????????.



?????AC??????, ?????L3????, ????????????, ??AC?????, ??????inform AC????AP????AC?????, ???domain name????IP(domain name?????????).

?UniFi AP solution???????????????????, AP?AC???????, client?????????????????, L2?????????????L3????.



UniFi AP solution????????????????????(Guest Control), ??????????, ??????????????QoS????(Traffic Shaping), ?????????????BYOD??, ??????????. ???SSID?????????????, ???VLAN????????????????, ??????. ???AP??????????, ?????????????????(Controller)??????????.



UniFi AP solution?????????, ??????????, ??????????:
http://dl.ubnt.com/datasheets/unifi/..._Datasheet.pdf

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????????, ??????????. ????????????



<http://www.ubnt.com/unifi>

FAQ

http://wiki.ubnt.com/UniFi_FAQ

[????](#)

<http://wiki.openwrt.org/toh/<wbr/>ubiquiti/unifi>

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http://www.ubnt.com/downloads/<wbr/>guides/UniFi/UniFi_AP_AP-LR <wbr/>User_Guide.pdf

???????? <http://forum.ubnt.com/forumdisplay.php?f=48>

?AP ??thin AP ??(?GUI) ????? PC ???wireless controller ,??
wireless ??????????????????licenese ,??????AP?????

UniFi AP???POE APP

?:

thin poe ap
?SSID ??SSID ??????
open wlan
??
1.??????
2.??????
3.?Paypa api ???????????
4.Portal ??????
5.???????????

???????????????

????
client ???
?????????
wireless vlan

Wireless uplink=Mesh

?????????????
L3 ?????+pppoe ??
x86 Router OS :
????
RouterOS , ??? , wayos ,m0n0Wall , SmoothWall ,CoyoteLinux , Vyatta
??? <http://www.hi-spider.com/>

???





UniFi?????????????



*????? ??????????

??????

- ???????
- ????????????????
- ??????????
- ?????????????? AP



UniFi ??????

??????????

“Ubiquiti Networks??”?????????

?????HW?????????????????

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Wi-fi.org????ID?WFA9602

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*?????????????????????Google???
*????????????????
*?????????24??30????????????????? ????
*?????????SSID????
*?????????
*????????????????

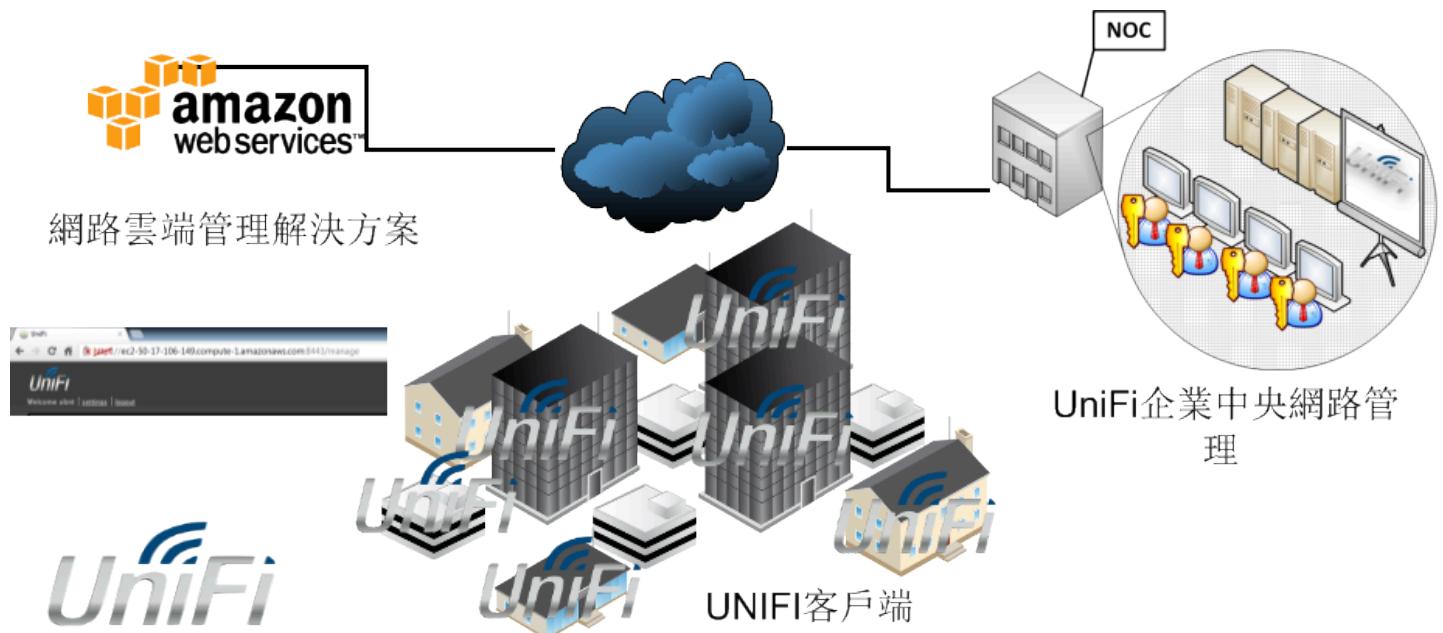
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- ??????????????????????



- ????
- ??????????????????
- ??????????????????????
- ???NOC o Cloud ???

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- ??????????????????
- ??????????????
- ??
- ??????????????

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- ???ID?????????1?1500?
- ??????????????
- ??????????????????

#	Code	Create Time	Note	Duration	Status	Actions
1	16226-99109	2011/08/03 23:22:39	Visita	50m	Valid for multi-use	<button>Revoke</button> <button>Print batch</button>
2	51870-68275	2011/08/03 23:22:39	Visita	50m	Valid for multi-use	<button>Revoke</button> <button>Print batch</button>
3	92740-88787	2011/08/03 23:22:39	Visita	50m	Valid for multi-use	<button>Revoke</button> <button>Print batch</button>
4	09636-70800	2011/08/03 23:22:39	Visita	50m	Valid for multi-use	<button>Revoke</button> <button>Print batch</button>
5	49247-36925	2011/08/03 23:22:39	Visita	50m	Valid for multi-use	<button>Revoke</button> <button>Print batch</button>
6	44063-03381	2011/08/03 23:22:39	Visita	50m	Valid for multi-use	<button>Revoke</button> <button>Print batch</button>
7	53805-05199	2011/08/03 23:22:39	Visita	50m	Valid for multi-use	<button>Revoke</button> <button>Print batch</button>
8	17047-63651	2011/08/03 23:22:39	Visita	50m	Valid for multi-use	<button>Revoke</button> <button>Print batch</button>
9	185 - 192 / 3000					

Create 1 Multi-use vouchers for User-defined 50 minute Add Notes Visita Create Vouchers

HOTSPOT ????

- ????????????
 - ? ???ID
 - ? ????????
- ??????
 - ? ??????

*?MAC???????

????

- ????: WEP/WAP/WAP2(AES/TKIP)/802.1x(Radius)
- ?? MAC
- SSID ??
- ??????(????)
 - ? ???
 - ? ???????
 - ? ???????
 - ? ??????? ?????????????????????
- ?SSID?VLAN??

??



Mesh ?? Link

- ??????????????????????????????????????
- ??????????????????????????????

????

- ID ?????????????SSID
- ??????????????????????????????

The screenshot shows the UniFi software interface. At the top, there's a header bar with the UniFi logo, a search bar, and navigation links for 'Map', 'Statistics', 'Access Points', 'Users', and 'Guests'. Below the header, a summary table shows the status of access points: 8 connected, 0 disconnected, 1 pending, 0 users, and 0 guests. A 'Refresh' button is set to 'Every 2 minutes'. The main area is titled 'Managed Access Points' and lists several access points with their MAC addresses, IP addresses, and connection status (e.g., 'Managed by Other', 'Connected (wireless)'). Each entry includes download/upload rates and channel information, along with 'Restart' and 'Locate' buttons. On the left, a sidebar lists recent events and access points. A modal window is open, titled 'Settings > User Groups', showing 'User Group Settings' with three entries: 'Basic' (Download: 512 Kbps, Upload: 256 Kbps), 'Extended' (Download: 1024 Kbps, Upload: 512 Kbps), and 'Premier' (Download: 2048 Kbps, Upload: 1024 Kbps). Each entry has 'edit' and 'delete' buttons. A 'Create' button is at the bottom of the list.

???????



The UniFi logo, featuring the word "UniFi" in a stylized font with a blue swoosh above the letter "i".

UAP y UAP-LR

- ??? SSID con VLANS
- 100 Clientes por equipo
- Soporta QoS para Voz y Video
- Segmentación y control de tráfico de invitados

Características	UAP	UAP-LR
Potencia(TX)	20dBm	27dBm
Sensibilidad(RX)	-92dBm	-96dBm
Antenas	2	2
Ancho de Canal	20/40Mhz	20/40Mhz
MIMO	2x2	2x2

Incluye Inyector Poe 24v – 0.5A



Tripack o Pack Simple

300Mb
ps



UAP-PRO

- WiFi dual en 2.4Ghz y 5 Ghz simultáneamente.
- Soporte de 2 puertas GE con POE 802.3af
- Segmentación y control de trafico de invitados
- Soporta 802.1Q WMM para Voz y Video
- Seguro para instalación
- 8 SSID, 4 en 2,4Ghz y 4 en 5Ghz



Tripack o Pack Simple



Incluye Inyector Poe 48v – 1A

450Mbps(MIMO
3x3)300Mbps (MIMO
2x2)

Características	UAP-PRO
Potencia(TX)	30dBm 2.4Ghz 22dBm 5Ghz
Sensibilidad(RX)	-92dBm
Antenas	03 2.4Ghz, 02 5Ghz
Ancho de Canal	20/40Mhz
MIMO	2x2 y 3x3

PICOM2HP

- Soporte de 04 SSID con VLANS
- Soporta + de 100 Clientes por equipo
- Soporta QoS para Voz y Video
- Segmentación y control de tráfico de invitados

Características	PICOM2 HP
Potencia(TX)	28dBm
Sensibilidad(RX)	-96dBm
Antenas	1
Ancho de Canal	20Mhz
MIMO	NO(SISO)



Incluye Inyector Poe 24v – 0.5A

**150Mb
ps**

UAP-OUTDOOR y UAP-OUTDOOR5

- Soporte de 04 SSID con VLANS
- Soporta + de 100 Clientes por equipo
- Soporta QoS para Voz y Video
- Incluye 2 Puertos Ethernet, con soporte POE.
- Segmentación y control de tráfico de invitados



Incluye Inyector Poe
24v – 1A. Con lo cual
soporta Poe
Passthrough para otro
dispositivo de poe
Pasivo

Características	UAP OutDoor	UAP OutDoor5
Potencia(TX)	27dBm(2.4Ghz)	27dBm(5Ghz)
Sensibilidad(RX)	-96dBm	-96dBm
Antenas	2	2
Ancho de Canal	20/40Mhz	20/40Mhz
MIMO	2x2	2x2



UAP-OUTDOOR 2.4Ghz

Modelos	Frecuencia	Ganancia	Ángulo
AM-2G-15	2.4Ghz	15dBi	120°
AM-2G-16	2.4Ghz	16dBi	90°
AMO-2G10	2.4Ghz	10dBi	360°
AMO-2G13	2.4Ghz	13dBi	360°

UAP-OUTDOOR5 5Ghz

Modelos	Frecuencia	Ganancia	Ángulo
AM-5G-16	5Ghz	16dBi	120°
AM-5G-17	5Ghz	17dBi	90°
AM-5G-19	5Ghz	19dBi	120°
AM-5G-20	5Ghz	20dBi	90°
AMO-5G10	5Ghz	10dBi	360°
AMO-5G13	5Ghz	13dBi	360°

??WiFi?????????????????????

- ???
- ???????
- ??
- ????
- ???????

Accesorios

INSTANT 802.3af

- ?????????????/ UAP?LR/ UAP????PICOM2?????802.3af PoE48V?
- ??802.3af?????????????????100??
- ??????????????????18V ESD?????15kV?
- ??????????????PoE??24V???????

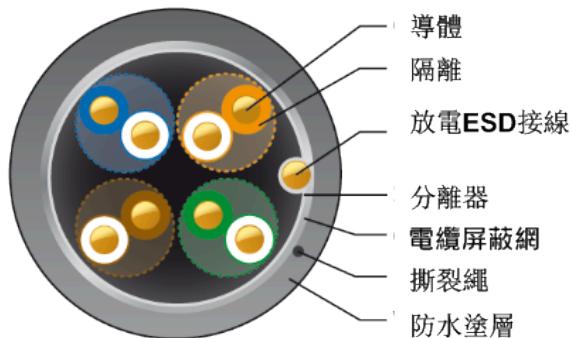


TOUGH CABLE

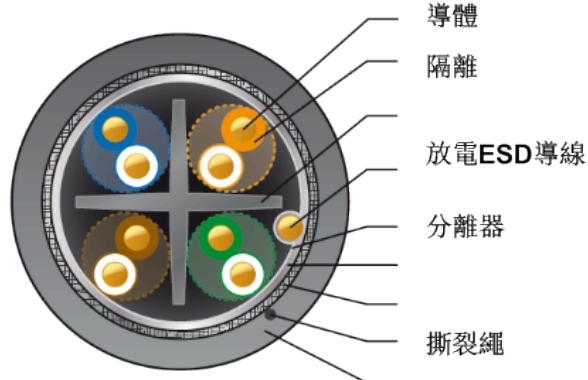
- ?????305????CAT5E????????ESD???
- ????????????????????????????????????
- ????????????????????????????????
- ???POE??????????
- ??24 AWG????????26 AWG?????15kV????

*????????????????????PoE?PoE????AP????????PoE???????

TOUGH Cable PRO



TOUGH Cable CARRIER



Eliminate ESD Ethernet Failures
TOUGH Cable
 OUTDOOR CARRIER CLASS SHIELDED

???????

- ??????(??)
 - ? 320 UAP
 - ? 1200 Usuarios(locales)
 - ? 3TB de descarga mensuales
- ????(??)
 - ? 72 UAP 20 UAP-LR
- ???(??)
 - ? 16 UAP
- ???(??)
 - ? 30 UAP 20 PICOm2HP
- ?????(??)
- ?????????(??)

