-

-
  - ب ” ṭ ﻉ ج ⁎ Á¦ Ő ˜
  - ڤ Φ ṭ ﻉ ج ⁎ Á¦ ﻉ ﻝ ሀ ̄
  - ڤ Φ Ẃ ð ڈ ۓ ṭ ¶

➢ ẗ Ḷ˜ ɱ-ẗ á ㄣ ε 4000 ɟ ζ Ȁ ш ṇ ɻ ㄠ ı ṇ
Ã ɔ ɟ ı Ґ Ω Ά ˛ ě ɔ Ã ɔ ɟ ㄚ ɟ è ƍ ɬ ɕ

➢ ɻ ɻ Ȟ ɟ ɜ ẗ p ª ı ɻ ㄣ ɵ Ä ǐ ѡ ڭ ɬ ɕ ۑ ^
ε ㄣ Æ ف ِ ζ

➢ Ω Ȟ ı ŏ ɻ ก OBJ ì Ɔ Ґ Ω ɻ ㎞ Ä ɟ ◖ ↨ Ґ Ω
Ω q ı Ṁ ɻ ʎ ѧ Ă ı ẽ ᵠ ŏ ɻ ψ ف ѿ ɧ ᴜ ɱ
Ĉ ̰ א ص K

➢ ɔ ʔ j ِ ق ᴜ ᵢ ɻ א ß ʃ ת ε ɻ ỽ ɻ ʎ ḧ ʁ é ɜ ζ

➢ ẗ ụ Ω ˛ Ḍ ᵢ ɻ ِ Ȁ ο ɻ

➢ ɔ ʔ ɻ ụ ɻ j h ̤ ı ѿ OBJ ο ڤ ɻ ı ѿ OBJ ο RJ11

Ở ч Ái ب ” χ

› ﻝ ﻝ ﻣ " ═ ɔ ʗ Ω Ẅ ỷ j ϱ h ص ᵶ ı Ä ã OBJ

ώ ჭ ע ᒻ â ก ɒ Ḷ ˜ ภ ﻝ ﻝ

Δ ǐ Ṗ ɻ ∂ χ

ˡ ˍ ŋ ﻛ ã Δ ǐ ǎ ɒ ᵐ ሀ ħ ϵ ϰ Δ ǐ ı Δ ǐ

ı ǐ ڀ ɾ ϵ ϰ ⋇ ﻣ ﻟ ъ ת ³ Δ ǐ ǎ ⁄ Ọ Й ǐ ı ώ

ɔ ﻝ ﻣ Ṿ Ḵ ı j ώ Ψ ﻛ ã › ﻝ ɨ ת ȝ ğ ڎ "

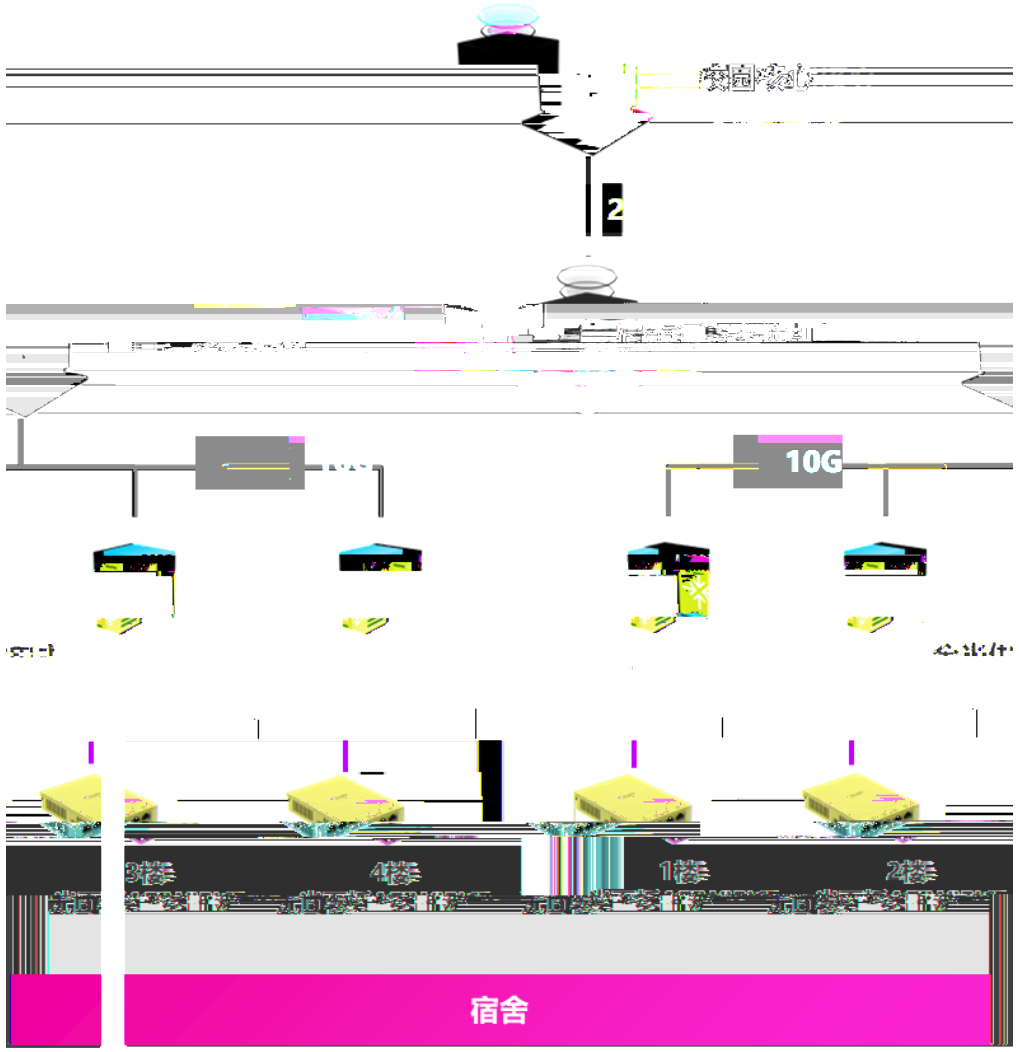
═ ı Ṅ ﻝ ﻣ ώ ჭ l ɹ ن ω Ң

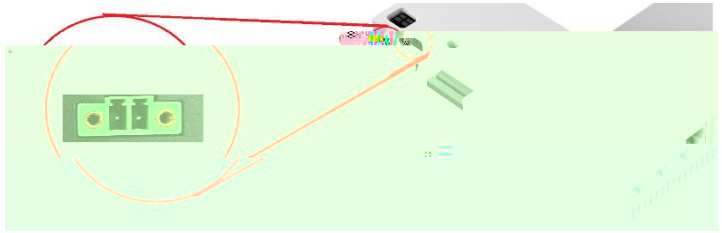
ì ϶ Ṗ ɻ ∂ χ

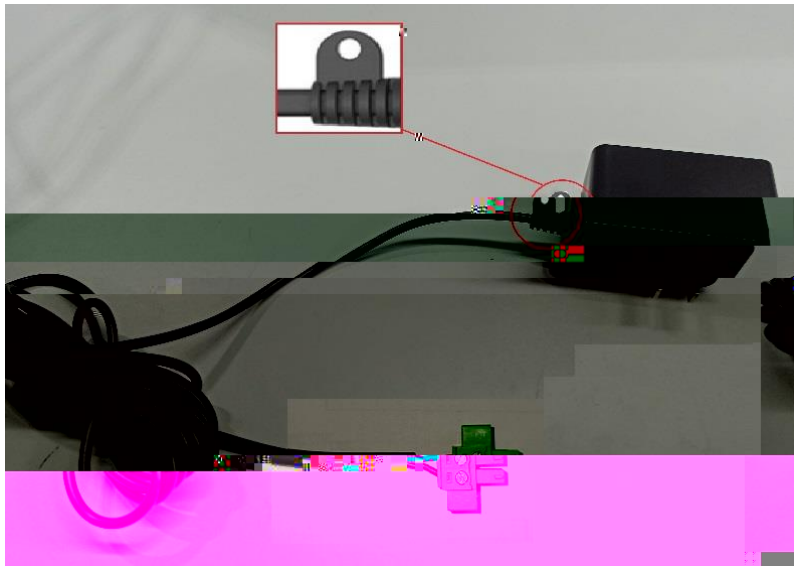
Ȧ ɯ ᴶ ϵ ϰ ⋇ Ґ Ω Ў Δ ǐ ı Ä ã ⋇

ʤ ʒ ภ Δ ǐ ِ ص ϵ ϰ ⋇ Æ Й ǐ ı ώ ɔ ﻝ ﻣ

Ṿ Ḵ ı ˡ Ꝏ Ṋ ﻝ ﻣ ώ ڬ ̷ Ϟ ψ







RG-MAP852-SF APմ ~ Ẏ ɡ

- ɔ ◊ گ ڀ ʰ ڀ ɾ ᵛ Ḍ ì ˘ ʿ AP ف ì ı AP ɔ ◊ ᵛ* ق ‖ ˜ Ḥ ' Y ɾ ì ı ɳ ɲ ₓ ת ʿ * ق ‖ ψ
- ɔ ◊ گ ڀ ʰ i ˎ ĺ ɒ Ⱥ w ɖ ḧ ḓ ɥ ı ˜ Ḥ ' Y ɔ ◊ گ ڀ ʰ Ḡ Ł ª ı ʺ H ɔ ◊ گ ڀ ʰ ɖ ḧ ɒ ᵐ i ε ⁞ ˜ Ω ɧ ᵹ ß ˜ ₓ ∂ ζ

1 RG-MAP852-SF ж AP ı ᴱ ̃Ḥ ̓Y ᴺ ̈Y ı ļ ∂ ᴺ ̈Y ӌ ȷ ̃ ᶾ Ъ —₆ N̰ ļ ∂ 30cm ı Ά ӂ ì ˇ ö ά ψ

2 RG-MAP852-SF ж APڀ ɾ ş ě ɔ ̀H ı ⊇ ̤ i ļ ∂ Æ ɾ ^ Ḍ ɥ ϒ ı ̈H ě ɔ ή ά ώ ɻ ƥ ^ Ḍ ɥ ϒ ɲ ı ʏ ḟ Ặ ɔ Ạ Ṫ h ̤ ψ

3 RG-MAP852-SF ж AP ƥ ì ɻ ̀H ɹ ļ ├ Ẏ ı ƥ ì ɔ ◊ ϒ Ḍ ı ├ Ẏ j ḟ я ӈ ж ᴺ ẹ ɻ ψ

4 RG-MAP852-SF ж APω ъ ϒ ο ɻ Ά Ã ı ʁ ̲ ϒ ˛ ɻ ⊐ ʁ ʐ ሀ ˛ ɻ ı ɹ ļ ˚ i̯ ̈A ᵑ ▌Ғ ڀ ɾ ᵤ ϒ ˛ ɻ Ά Ã ψ

5 RG-MAP852-SF ж AP

RG-AM5552-SF ĩ ح à ﻝ ﻣ ﻍ ‖ ﻛ ﷺ θ ϡ ж Ά ı ò ¸ OBJ ¸ b ʉ Ƶ ŧ ע ι ε þ ή ɨ Ļ ﻝ ¸ ɧ Ļ ﻍ ת ڤ ﻝ ﻛ ζ ï OBJ ΰ ʻ ʒ ή ɨ ì Ϡ ᴾ ı ﭖ ŧ 802.11ax ʁ ת ‰ ı Ṅ ᴶ RG-AM5552-SF ڼ ص å ʁ ¸ 48 Ѧ ʾ Ḥ ʻY ж ﻣ ì Ϡ OBJ Radio ₩ ę ı ʾ Ḥ ʻY 48 Ѧ ʾ A ڑ OBJ ή ɨ ì Ϡ ό ĩ ı ⅛ Ѧ ʾ A ڑ ѡ ב ᴵ ҕ õ 1.775G OBJ Ṿ Ķ ° ◊ ı ◑ ′ Ļ ˜ ע ι ﻛ ב ό ĩ ì Ϡ OBJ ﺩ ∂

ғ β ʒ ᴺ	RG-AM5552-SF
ŒRU	ﺭ / ʃ ת ʰ ı ɒ / ʓ ¦ 1.0G
BOOTROM	16MB
Flash Memory	512MB
SDRAM	1GB
ʾḤ'Y OBJ ж ₩ ę ɻ ʒ	ν ă گ ę B ʾḤ'Y OBJ ₩ ę ʒ ᴺ ω ᴵ ĩ ₺ ʾH ˜ ʾA ı ъ ч ت ᵛ Ĭ ح à ﻝ ﻣ ¡ ʾA ʾO ת ሀ ʾḤ'Y

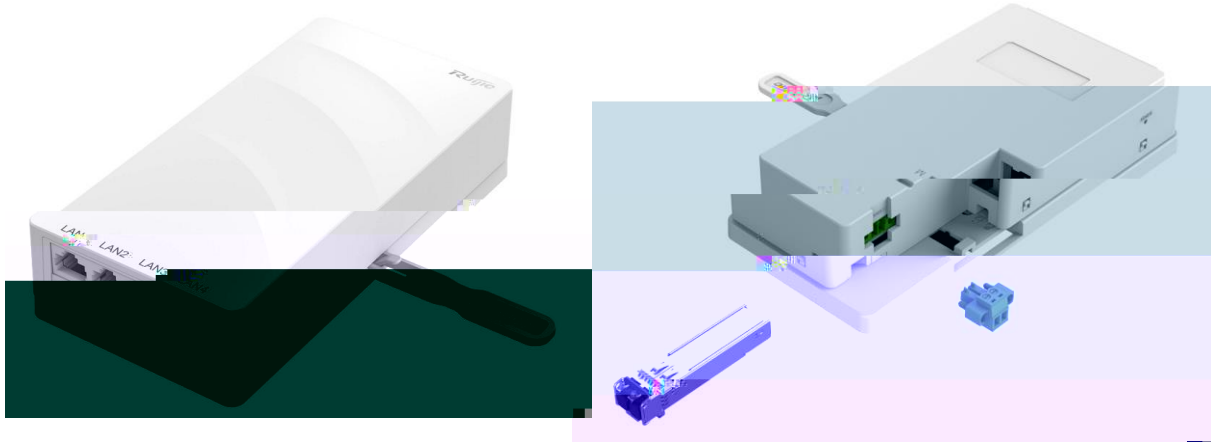
看得见的

RG-AP850-AR(V2) ĩ ҷ ὰ ㇷ ㅅ ˭ ᵇ ᴈ Ὸ ώ̈ ẗ ˝ Ὸ ᷾ ƀ ў ㄴ ί ㄲ ß ˜ ò ̧ ▯ЖЂ ت ᵡ ļ ˜ Ḥ ˈ Y 802.11ax▯

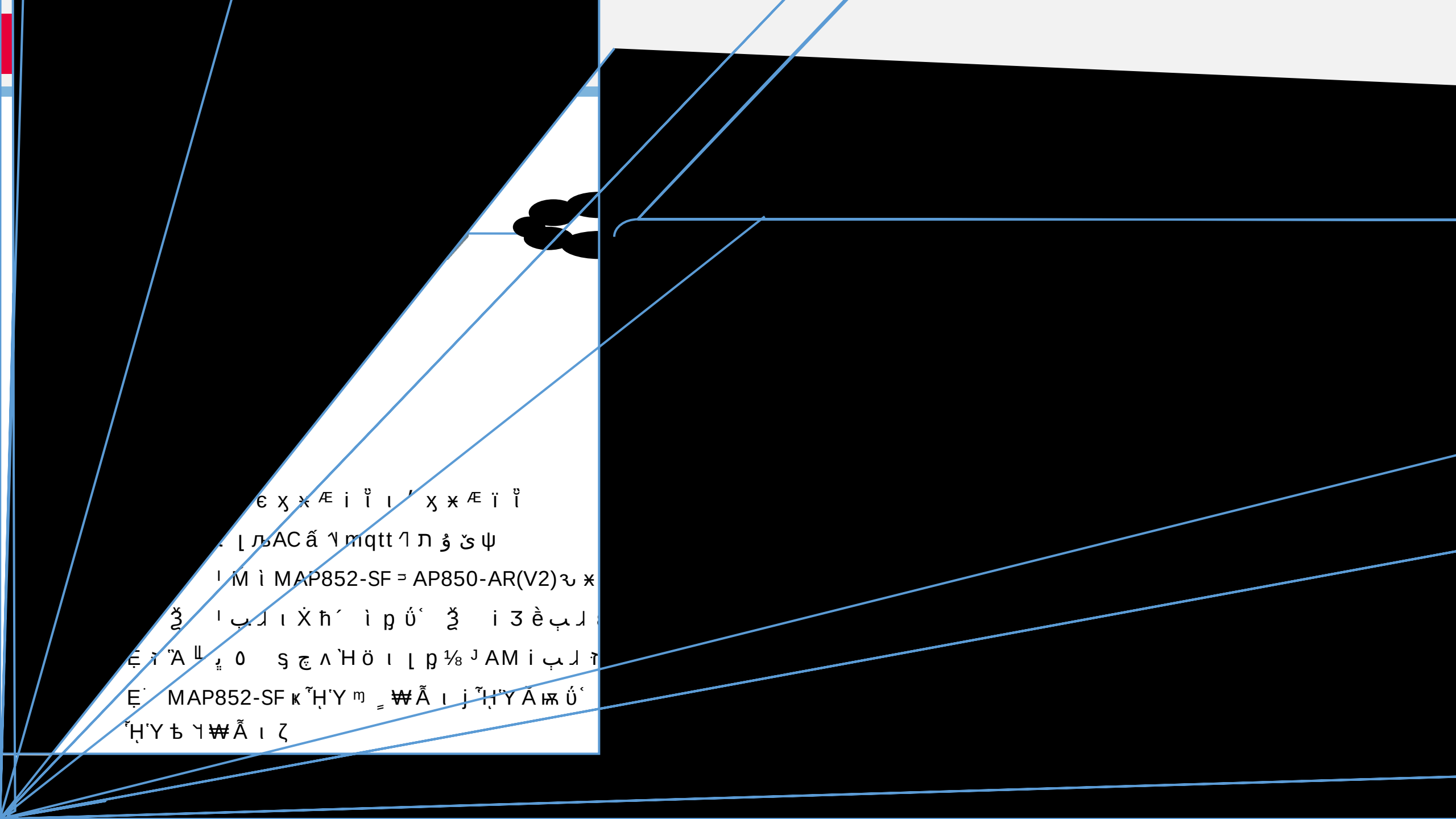
ῂ ㇵ ì Ɔ ᵾ ε AP ζ ғ β ı ڀ ɾ ЖЂ ṃ ļ ˈ H ı Ʊ ㅅ 2.4G ṃ ļ ɹ ˈ ώ ĕ ѡ ᴈ 400Mbps0B69074809E009CC0BB505670B

RG-MAP852-SF ĩ ̄ ᵇ › ĭ ⅄ Ļ˜ ⅄ ∧ ıı ı Ɔ ″A ⅄ ∧ ↰ Ļ ㄱ á ↰ ß ˜ ò ˛ OBJ À ⊓ℑ ⊼ ⅋ ɳ ɻ ⅄ ∧ OBJ ɳ ɻ ì ℜ ℮ ғ β ⅋ ⊼ ⊼ ɻ ɸ ɯ ı ˜Ḥ'Y2.4G+5G Ṫ Ă ₩ Ã ı ˙ ˜Ḥ'Y ª `H Ṫ Ă ƥ 802.11ax ⊐ 802.11ac wave2/1 802.11n ₩ Ã

- 5 Ⱥ ′ ɣ ㄱ Æ ε ẓ ¯ ㎚ 1 Ⱥ ′ ɣ ı ĭ ⊁ Æ ζ
- ω ⁎ 1.2Gbps+574Mbps OBJ ɳ ɻ ì ℜ ⊼ '
- ˜Ḥ'YFit ₩ Ã ⊐ FAT ₩ Ã
- DC48V ⅄ ⊼ ᴴ ě ↄ
- Micro USB ʒ ㎚ Æ ı ت ㄱ Æ ɾ USB ″Ω ˜Ω ɻ ´ ف USB
- ᒧ ᒪ 1550 ㄴ ذ ɒ ƾ ⊁ ₩ ę ı Ḿ ㄱ ɹ ɻ Æ ɾ 1310 ㄴ ذ ɒ ƾ ⊁ ₩ ę Ḿ ì



RG-DC4805-BA ĩ ჯ ὰ ﾉ ᛗ ὸ ̧ ٻ ᵀ RG-MAP-852-SFÆ ɾ ▨ ₲DC ɔ ◊ گٻ ʰ ψ ڑ ϶ υ χ 100-240Vac 50/60Hz 0.6A Max ψ ڑ ̧ χ 48V 0.5A 24W ◑ ’ RG-MAP-852-SF


ϵ ϰ ϗ Æ i ǐ ı ′ ϰ ϗ Æ ï ǐ
ı ļ ЛЪAC á ٦ mqtt ٦ Л ǿ ѽ ψ
ı M ì MAP852-SF ⊐ AP850-AR(V2) ২ ϗ
ǯ ı ب.ر ı Ẋ ħ ´ ì ƥ ΰ ʿ ǯ i ʒ è ب.ر
Ẹ ɨ Ä ₩ ₫ ο ş ჭ ∧ Ḥ ö ı ļ ƥ ⅛ ᴶ AM i ب.ر ɲ
Ẹ MAP852-SF ĸ Ḥ Y ᵐ ₌ ₩ Ã ı ȷ Ḥ Ÿ Ā ₥ ΰ ʿ
Ḥ Y Ь ٦ ₩ Ã ı ζ

➢

➢

```
SW(config)# ip dhcp pool AP_VLAN
SW(dhcp-config)#option 138 ip 1.1.1.1                    //ˇY ᵇ AC[OBJ]ip ʂ ɣ
SW(dhcp-config)# network 2.1.1.0 255.255.255.0
SW(dhcp-config)# default-router 2.1.1.1
```

➢

```
am5552-sf(config)#int vlan 1
am5552-sf(config-if-VLAN 1)#ip add 2.1.1.2 24
am5552-sf(config-if-VLAN 1)#exit
am5552-
```

➢

➢

```
AC#show device-config summary
========== show device status ==========

Online device number: 2
Offline device number: 0

 Mac Address    Device Name                IP Address      Up/Off time   State
 -------------- -------------------------- --------------- ------------- -----
 c0b8.e650.08d5 am5552-sf                  20.4.99.93        0:12:10:51 Run
 c0b8.e650.08d8 am5552-sf-1                 20.4.99.94        0:12:14:03 Run
```

➢ χ Ḛ ڳ ɟ ˈ i ɻ ֆ ᵵ j h Ǐ ~

➢

➢

```
AC#show device-config version summary
========== show device status ==========

Online device number: 2

 Mac Address    Device Name                  Serial number    Product ID          Software version
 -------------- ---------------------------- ---------------- ------------------- ------------------------------------
c0b8.e650.08d5 am5552-sf                    G1P512C001096    AM5552-SF/1.00      AM_RGOS 11.9(6)B5, Release(08161919)
c0b8.e650.08d8 am5552-sf-1                  G1P512C001097    AM5552-SF/1.00      AM_RGOS 11.9(6)B5, Release(08161919)
```

➢

➢

*am-mac*χ ¨Y ḧ ″ ㄏ ☜ ⁎ AMᵩ ᵵ MAC ş χ

*url-addr*χ ″ ㄏ ΰ ˋ ƺ ᵩ ţ v ş χ ȝ Ụ ı ɣ ύ FTP ̀O ᴑ ʜ ş χ ˋ ẹ FTP ̀O ᴑ ʜ ☜ ᴎ Ḻ ⁼ ᵩ ţ v ª ㄐ Í v ¨Ω Ã ʜ χ ftp://user:pass@ip/filename ı Ʊ ⅄ IP ş χ ʜ AC ⁼ ΰ ˋ ƺ ụ ȝ ş χ ı filename ʜ Ţ ㄴ i ⊖ ˙ AC ᵩ ţ v ª ㄐ

```
device-upgrade url ftp://ruijie:ruijie@1.1.1.1/am5552sf.bin

device-upgrade mac c0b8.e64b.9ee0 url ftp://ruijie:ruijie@1.1.1.1/am5552sf.bin
```

➢ χ

- ″ ㄏ ĩ Ⱪ ớ ᵘ ᵬ ı ṇ | ȝ è ı À ɾ ᘐ ᵩ ᵵ ṇ | ₅ ʊ ″ ㄏ ı ₓ ɻ ᵱ À ̃Ω ″ ㄏ ᵘ ᵬ
- ″ ㄏ ṇ | ¶ ~ · ″ ㄏ ڤ ẙ ı ˡ ᵑ ص sh device-config version sum ¶ ~ v ừ `
- ″ ㄏ ṇ | ¶ ~ · ″ ㄏ ¸ م ⊐ ɨ ı ˡ ᵑ ص ʜ Æ ά ᘐ ΰ ˋ ƺ i ¶ ~ ·
- ″ ㄏ ᵘ ᵬ j ḫ ṏ ḛ ḭ ㄏ ̃Ω ı ᵋ ‴ h ჯ ă ᵅ ₌ ï ɜ ɣ ḫ ˝ · ₌ Ţ ㄴ ï ɜ ɣ ı ჯ ă ″ ㄏ ¸ م
- ″ ㄏ ω ⁎ ᴱ ы ᵽ 10 Ⱥ ΰ ˋ ƺ ª `H ï ɜ ″ ㄏ ı ^ ᵩ ᵵ ɻ ㄐ ˙ ₌ 10 ᴶ ɜ Ḣ ı ˈ ڤ Φ ″ ㄏ ⁎ ƺ ı ω ^ ㄐ ể 1 ḫ `H ı ₓ ɻ ᵱ À ⊐ ï ∧ ″ ㄏ ᵘ ᵬ

看得见的

➢

```
========Interface GigabitEthernet 0/48========
Transceiver Type    :  1000BASE-LH-SFP
Connector Type      :  LC
Wavelength(nm)      :  1310
Transfer Distance   :
    SMF fiber
        -- 20km
Digital Diagnostic Monitoring  : YES
Vendor Serial Number           : G1PT8P2009864

Current diagnostic parameters[AP:Average Power]:
Temp(Celsius)   Voltage(V)      Bias(mA)           RX power(dBm)       TX power(dBm)
29(OK)          3.28(OK)        9.75(OK)           -6.26(OK)[AP]       -6.28(OK)
```

➢

χ ж ₩ ę ȝ ᴺ ı ḅ ˜ χ ′ χ є χ

χ ف ì ᴴ ȝ ᴺ ı ḅ ᴅ ₩LC ı ^ ₩SC

ж ₩ ę ᴸ ت ı MAP852-SF₅ Ṿ 1550 ᴸ ت ж ₩ ę ı ΰ‘ ǯ ı Ḿ ì 1310 ᴸ ت ж ₩ ę ᵋ ḛ ḧ │link up

χ ж ₩ ę ω ت ˜Ḥ'Y e ڑ ˈ ˜

Temp(Celsius)	Voltage(V)	Bias(mA)	RX power(dBm)	TX power(dBm)
ж ₩ ę □ ỷ	ɔ я	ɔ ╚	ì ώ ı '	∧ گ ı '

Ծ ʌ RX power ĩ ¸ Ă ж ڼ ت ầ Ẃ ʜ ڃ ˝Y‰ ı ڼ ت ̊ Ḅ ı ì ώ ı ' ƍ -10dbm Ꝏ i

OKЋ ´* Ẃ ı alarmЋ ´ ầ Ẃ

➢

➢

```
AC#show mqtt clients
count: 1
id: am/c0b8.e64e.e374/2
    sock: 1415
    username: ruijie
    address: 16.30.49.1
    sub_count: 4
    last_msg_in: 408672
    next_msg_out: 408687
```

➢

```
AC(config)# mqtt-server enable
```

➢

➢

ΰ‘ Ӡ ≡ i ۴

➢

1 ΰ‘ Ӡ ⊃ AC ن ت ẳ Ẃ ψ

2 ΰ‘ Ӡ i n ת ڃ ئ ip ş ҳ ő ẳ AC ip

➢

1 ƥ ΰ‘ Ӡ i ping AC ş ҳ ı ~ ĩ j ĩ ping ن ψ

2 ƥ ΰ‘ Ӡ i sh acip ipv4 ɲ ĩ ε ʁ* . acip ş ҳ

```
am5552-sf#sh acip ipv4
dhcp ip[0]: 20.40.95.4
mosq connect ip[1]: 20.40.95.4  //ف A ʁ á ٦ mqtt ؤ ئ ip ş ҳ
```

➢

ΰ‘ Ƶ ЉACژ ή | ấ ٧ ؤ ێ

➢

1 AC i MQTTˋO n ' ᵏ ɾ

2 ΰ‘ Ƶ ⊐ AC[OBJ] ڼ ت ầ Ẃ

➢

1 AC i ɒ show run | in mqtt ƀ¶ ~ ˋO n ĩ ᵋ ᵏ ɾ

2 AC i ɒ show mqtt clients ƀ¶ ~ į̃ Ä ٧ ʒ Ụ

3 ping ₅¶

- MAP852-SF ð AP850-AR(V2) ≡ i ɻ

- 1 ú ʿ Ƹ̵ ⊐ AP ж ن ت â Ẃ ψ
  2 AP ˡ ǐ ≡ ě i ɔ

- 1 ƥ ú ʿ Ƹ̵ i sh int tram ˜ ж ₩ ę ⊐ ж ن ت ù ˋ ı* Ẃ ж ن ت ï RX Power -10dbm ψ
  2 ₓ ɭ ⊐ AP א ʃ ˜ ˝Y˜ ♂ ω ≡ ʒ ε ǐ ˛ Ă

➢

ΰ‘ ƺ ″ ∤ ₀

➢

1 ftpὈ ᴏ ᴎ Ầ ᵏ ầ Ẃ ψ

2 ″ ∤ ᵘ ᵑЪ† Ẫ ᷓ ᵴ

➢

1 Æ ɾ sh ftp-server ̃ ˜ Ὀ ᴏ ᴎ Ṫ Ă ↑ ỗ ψ

2 device-upgrade url ftp://ruijie:ruijie@1.1.1.1/am5552sf.bin Ʊ ᴀ ftp ᵅ ⃞ ب ـ ɻ ɋ Ḧ ʜ ftp://

ɾ Ạ ᵉ : Ḷ @ip ş ẋ / v ᵉ È , Ẋ ħ ɾ Ạ ᵉ ⊃ Ḷ j ǐ Ṿ ≠ e È ϟ

看得见的

➢

ж ج ت RX powerΘ ᵓ ¿

➢

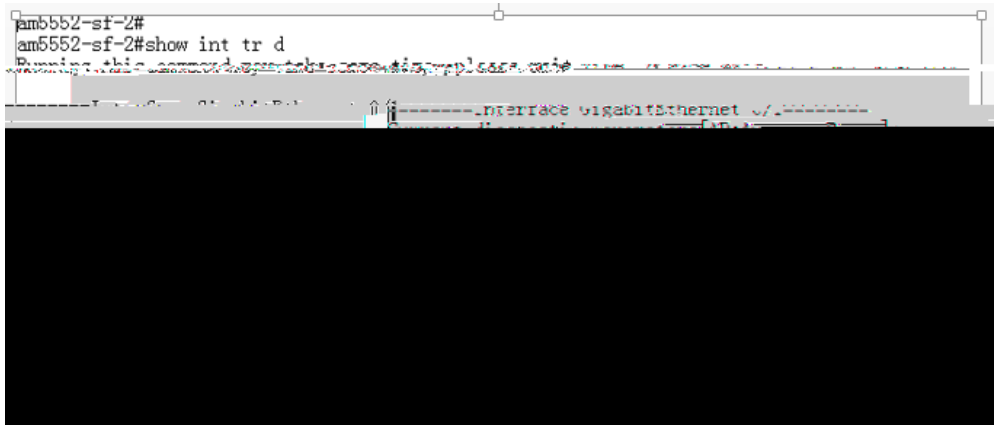
1 ì˘ —υ ὖ Ƨ ψ

2 ٮ ۱ ì˘ ⁄ … ψ

➢

1 ж ج ت ì˘ ĩ ε —υ ὖ Ƨ ι ڇ ļ ή‾ AP ۱ ж ڇ ⊐ ODFٮ ۱ " ٮ ۱ ĩ ε ì Ḅ

2 ٮ ۱ ì˘ ˡ Ꝋ ŧ ¸ ۱ ۱ ˝Ḥ ὐ ï ή‾ ĩ ε ⁄ … ι ḅ ή | ѿ ѽ ɹ ˜ ι ₄ ļ ˜ ˝Ω ж ₩ ę ǎ ă APف Φ ή‾



- ĵ ɻ ʓ ɤ ŭ ʿ Ά ĵ ɬ β i ɻ Ά Ã Ћ ъ ҽ ʌ ŭ ʿ Ά ĵ i ɻ Ά Ã ı è ƍ ᵤ Ꝑ Ţ ầ ó
- ĵ ɻ ʓ ɤ Ά ĵ ʊ ħ ¯ i ћ ъ ҽ ʌ ŭ ʿ Ά ĵ ı è ƍ ᵤ Ꝑ Ţ ầ ó

THANKS

ڍ à ﻝ ﻡ ŭ ¥ õ ب ع и

ş ҳ χ ר Ж ╤ ╪ т ʜ G ب 29 ᴺ ʌ Ỵ Ą ᵶ ↀ ɟ A ả 11 Ṗ

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Office Tel: 010-51715999

Fax: 010-51413399

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ʺE ʺEę Ỏ ˜ ^ л ķ