# RG-T01

V1.00

# 1

RG-T01 ‟ ″I ∧ ŋǔ à æ ╗ à ɲɪ ɔ à ɲɪ ɔ Ч ώ˘
ᵏ ɷ /æ à ɔ ∧ ´ ث ’ ˝ IEEE 802.3 10Base-T˝ IEEE 802.3u 100Base-TX ɲ 100Base-FX
ñ˘ 10/100M à ŏ/´ ∨ à /Ђ ∨ ˘ ᵏ ɷ ò ’ ` ∨ ă ˘ ∧ ɲ ч э
ă ᴳ a˚ è ˘ ÿ ″I ą ∧ ƒ˚ У ″I ą ∨ ă· ˘ ɷ ″I ÂRG-T01 ‟ يز ط à ˘
ح à Ђ à ɲ è ы Â

RG-T01 ‟ ″I ∧ ŋǔ ^ Ю ů ң ت

| ң ш ч ∧ | 100Base-FX ∧ | 10/100Base-T Л Ъ ∧ | ″I ∧ ɔ ^ ` æ nm˜ | ″I ∧ ɔ | ″I ∧ · |
|---|---|---|---|---|---|
| RG-T011-FE20-SM1310 V1.XX | 1 | 1 | 1310TX/1550RX | ` ∨ ă | 20km |
| RG-T011-FE20-SM1550 V1.XX | 1 | 1 | 1310TX/1550RX | ` ∨ ă | 20km |
| RG-T011-FE40-SM1310 V1.XX | 1 | 1 | 1310TX/1550RX | ` ∨ ă | 40km |
| RG-T011-FE40-SM1550 V1.XX | 1 | 1 | 1550TX/1310RX | ` ∨ ă | 40km |
| RG-T012-FE20-SM1310 V1.XX | 1 | 2 | 1310TX/1550RX | ` ∨ ă | 20km |
| RG-T012-FE20-SM1550 V1.XX | 1 | 2 | 1550TX/1310RX | ` ∨ ă | 20km |
| RG-T014-FE25-SM1310 V1.XX | 1 | 4 | 1310TX/1550RX | ` ∨ ă | 25km |
| RG-T014-FE25-SM1550 V1.XX | 1 | 4 | 1550TX/1310RX | ` ∨ ă | 25km |

RG-T01 1310TX/1550RX
1550TX/1310RX 1310TX/1550RX
1550TX/1310RX

## 1.1 RG-T011-FE20-SM1310

| ң ш ч ∧ | RG-T011-FE20-SM1310 |
|---|---|
| SC ″I ∧ | 100Base-X |
| ″I ∧ ɔ | |

| | | | |
|---|---|---|---|
| ˝I ˄ | FRX | | ˝I |
| | | ă | ˝I ˘ · |
| | | | ˝I ˘ فخ· |
| ˄ | TRX | | ˄ Link |
| | | ă | ˄ link˘ · |
| | | | ˄ link˘ فخ· |
| 10/100M | 10/100 | | ˝I ˄ ئؤ ˝Ω فخ 10M |
| | | ă | ˝I ˄ ئؤ ˝Ω فخ 100M |
| ˝I ˄ ą ˄ | FPL | | ˝I ˄ ˝I ą ˄ |
| | | ă | ˝I ˄ ˆ ώ ˝I ą ˄ |
| ˄ | FDX | | ˄ ɔ ѝ ´ ˅ |
| | | ă | ˄ ˄ ɔ ѝ ώ ˅ |

## 1.3 RG-T011-FE40-SM1310

RG-T01 A

RG-T011-FE40-SM1310

RG-T011-FE40-SM1310 ˝I ٨ ئؤ ṁ k 1 э 10/100Base-T Љ ٨ ȁ 1 э ˝I SC ˝I ٨˘ ɨ k Ӈ ώ ٨ ȁ ˜Ω Â

يي 1-5RG-T011-FE40-SM1310 ṁ يي

يي 1-6RG-T011-FE40-SM1310 ɨ يي

RG-T011-FE40-SM1310 ˝I ٨ ئؤ Ӈ ώ Â

Ӈ ˆ AC˜ ώ˙

٧ ٮز˙ 100-240V~

˙ 50/60Hz

˙ 1A

˙ 10A

RG-T011-FE40-SM1310 ˘ ѝ ɖ ˘ ﻫ ˘ ﻫ ч ˅ 10cm ˘ Љ ﻫ ¥ Â ˆ 3 э У ˜˘ ó Э Â

| | | | ǖ Ѭ |
|---|---|---|---|
| | POW | | ˝I ⅄ ئۇ Э |
| | | ă | ˘ ᵏ |
| ˝I ⅄ | FRX | | ˝I |
| | | ă | ˝I ˘ · |
| | | | ˝I ˘ ﻫ· |
| ⅄ | TRX | | ⅄ Link |
| | | ă | ⅄ link˘ · |
| | | | ⅄ link˘ ﻫ· |
| 10/100M | 10/100 | | ˝I ⅄ ئۇ ˝Ω ﻫ 10M |
| | | ă | ˝I ⅄ ئۇ ˝Ω ﻫ 100M |
| ˝I ⅄ ą ⅄ | FPL | | ˝I ⅄ ˝I ą ⅄ |
| | | ă | ˝I ⅄ ˆ ώ ˝I ą ⅄ |
| ⅄ | FDX | | ⅄ ɔ ѝ ´ ⅃ |
| | | ă | ⅄ ⅄ ɔ ѝ ѿ ⅃ |

## 1.4 RG-T011-FE40-SM1550

| ң ث خ ⅄ | RG-T011-FE40-SM1550 |
|---|---|
| SC ˝I ⅄ | ù $1ÕÕ,Ba-BX ɑ°ø°Pr©ðõ°fe°538.38 25-039148 re5.601 re f 0.878 sc.7 [e f 53e f 0.878 j /0.48 re f 5 |

| | |
|---|---|
| ɔ | -20ºC ↑ 60ºC |
| ẏ | -25ºC↑ 85ºC |
| ɔ ˊ | 10% ↑ 90% RH |
| ẏ ˊ | 5% ↑ 90% RH |
| | |
| EMC | GB9254-2008 |
| | GB4943-2011 |
| ˆ × × ˜ ˆ ` Æˊ mm˜ | 140× 110× 29 |
| ˆ ` Æˊ kg˜ | 0.5 |

RG-T01 A

RG-T011-FE40-SM1550

RG-T011-FE40-SM1550 ˝I ˆ ئۇ ṃ k 1 э 10/100Base-T Љ ˆ ȁ 1 э ˝I SC ˝I ˆ˜ ɨ k Ӈ ώ ˆ ȁ ˜Ω Â

يي 1-7 RG-T011-FE40-SM1550 ṃ يي

يي 1-8RG-T011-FE40-SM1550 ɨ يي

RG-T011-FE40-SM1550 ˝I ˆ ئۇ Ӈ ώ Â

Ӈ ˆ AC˜ ώ˙

˥ ˙ ˙ 100-240V~

˙ 50/60Hz

˙ 1A

˙ 10A

RG-T011-FE40-SM1550 ˘ ѝ ɖ ˘ ˙ ˘ ˙ ч ˅ 10cm ˘ Ѣ ɟ
ɣ Â ˆ 3 э У ˜˜ ó Э Â

| | | | ǖ Ѭ |
|---|---|---|---|
| | POW | | ˝I ˆ ئۇ Э |
| | | ă | ˘ ˅ |
| ˝I ˆ | FRX | | ˝I |
| | | ă | ˝I ˘ ˙ |
| | | | ˝I ˘ ˙ |
| ˆ | TRX | | ˆ Link |
| | | ă | ˆ link˘ ˙ |
| | | | ˆ link˘ ˙ |
| 10/100M | 10/100 | | ˝I ˆ ئۇ ˝Ω ˙ 10M |
| | | ă | ˝I ˆ ئۇ ˝Ω ˙ 100M |
| ˝I ˆ ą ˆ | FPL | | ˝I ˆ ˝I ą ˆ |
| | | ă | ˝I ˆ ˆ ώ ˝I ą ˆ |
| ˆ | FDX | | ˆ ɔ ѝ ´ ˇ |
| | | ă | ˆ ˆ ɔ ѝ ώ ˇ |

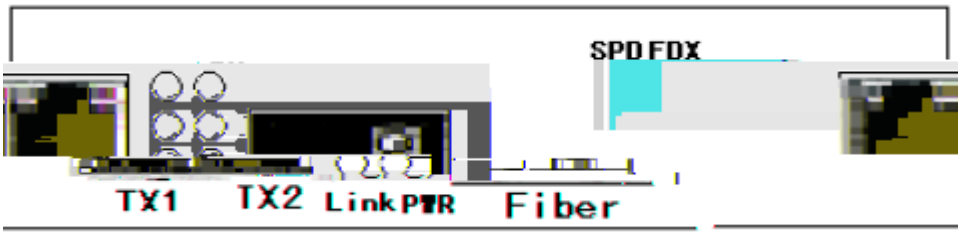
## 1.5 RG-T012-FE20-SM1310

| | |
|---|---|
| Ҥ ث خ ش ⅄ | RG-T012-FE20-SM1310 |
| SC ˝I ⅄ | 100Base-X |
| ˝I ⅄ ɔ<br>ˆ ` Æ˛ nm˜ | 1310TX/1550RX |
| ˝I ⅄· | ` ˝I 20km |
| ⅄ ˝I ╥ | -20˙ -8dBm |
| | Ů -32 dBm |
| | Ӈ ˆ AC˜ ώ˛<br>⅄ ⅄ ˛ 100-240V~<br>˛ 50/60Hz<br>˛ 1A |
| ╥ | 5W |
| ɔ | -20ºC ↑ 60ºC |
| ẏ | -25ºC↑ 85ºC |
| ɔ ˛ | 10% ↑ 90% RH |
| ẏ ˛ | 5% ↑ 90% RH |
| | |
| EMC | GB9254-2008 |
| | GB4943-2011 |
| ˆ × × ˜<br>ˆ ` Æ˛ mm˜ | 140× 120×30 |
| ˆ ` Æ˛ kg˜ | 0.5 |

RG-T01 A

RG-T012-FE20-SM1310 ˝I ⅄ ئؤ ṁ k 2 ɘ 10/100Base-T Ƕ ⅄ ȁ 1 ɘ ˝I SC ˝I ⅄˘ ɨ k Ӈ ώ ⅄ ȁ ˜Ω Â

يي 1-9RG-T012-FE20-SM1310 ṁ يي




يي 1-10RG-T012-FE20-SM1310 ɨ يي

RG-T012-FE20-SM1310 ˝I ⅄ ئۇ Ӈ ώ Â

Ӈ ˆ AC˜ ώ˙

⅄ ⅄ˊ 100-240V~

˙ 50/60Hz

˙ 1A

˙ 10A

RG-T012-FE20-SM1310 ˘ ѝ ɖ ˘ ⅄ ˘ ⅄ ч ˅ 10cm ˘ Љ ɨ

ɣ Â ˆ 3 э У ˜˜ ó Э Â

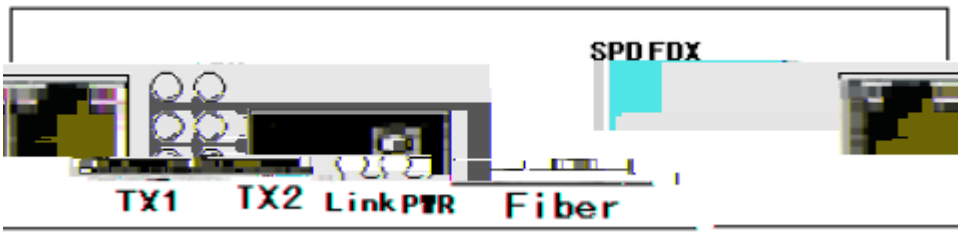
| | | | ǖ Ѭ |
|---|---|---|---|
| | PWR | | ˝I ⅄ ئۇ Э |
| | | ă | ˘ ᵏ |
| ˝I ⅄ | Link | | ˝I |
| | | ă | ˝I ˘ ˙ |
| | | | ˝I ˘ ⅄˙ |
| ⅄ 1 | SPD˜ ˜ | | ⅄ 1 ɔ ⅄ 10M |
| | | ă | ⅄ 1 ɔ ⅄ 100M |
| ⅄ 1 | FDX˜ ˜ | | ⅄ 1 ɔ ⅄ ´ ⅄ |

| | | | |
|---|---|---|---|
| | | ă | ˅ 1 ɔ ﻓﺨ ﻱ ˅ |
| ˅ 2 | SPD ˆ è ˜ | | ˅ 2 ɔ ﻓﺨ 10M |
| | | ă | ˅ 2 ɔ ﻓﺨ 100M |
| ˅ 2 | FDX ˆ è ˜ | | ˅ 2 ɔ ﻓﺨ ´ ˅ |
| | | ă | ˅ 2 ɔ ﻓﺨ ﻱ ˅ |

## 1.6 RG-T012-FE20-SM1550

| | |
|---|---|
| ɥ ث ﺷﺨ ˅ | RG-T012-FE20-SM1550 |
| SC -˝I ˅ | |

يي 1-11 RG-T012-FE20-SM1550 ṃ يي




يي 1-12RG-T012-FE20-SM1550 ɨ يي

RG-T012-FE20-SM1550 ˝I ٨ ئؤ Ӈ ώ Â

Ӈ ˆ AC˜ ώ˙

٧ ٮز˙ 100-240V~

˙ 50/60Hz

˙ 1A

˙ 10A

RG-T012-FE20-SM1550 ˘ ѝ ɖ ˘ ڧ ˘ ڧ ч ˇ 10cm ˘ Љ ɨ

¥ Â ˆ 3 э У ˜˜ ó Э Â

| | | | ǖ Ѭ |
|---|---|---|---|
| | PWR | | ˝I ٨ ئؤ Э |
| | | ă | ˘ ᵏ |
| ˝I ٨ | Link | | ˝I |
| | | ă | ˝I ˘ ˙ |

| | | | |
|---|---|---|---|
| | | | ˝I ˘ فخ· |

٨ 1 SPD˘ ˜

٨ 1 ɔ فخ 10M

RG-T014-FE25-SM1310 ˝I ٨ ئؤ ṃ ᵏ 1 э 10/100Base-T Љ ٨ ȁ 1 э ˝I SC ˝I ٨˘ ɨ ᵏ Ӈ ώ ٨ ȁ ˜Ω Â

يي 1-13RG-T014-FE25-SM1310 ṃ يي

يي 1-14RG-T014-FE25-SM1310 ɨ يي

RG-T014-FE25-SM1310 ˝I ٨ ئؤ Ӈ ώ Â

Ӈ ˆ AC˜ ώ˙

٧ ٮز˙ 100-240V~

˙ 50/60Hz

˙ 1A

˙ 10A

RG-T014-FE25-SM1310 ˘ ѝ ɗ ˘ ڧ ˘ ڧ ч ᵛ 10cm ˘ Љ ɨ ɣ Â ˆ 3 э У ˜˘ ȯ Э Â

| | | | ﺑﻴﺎﻧﺎﺕ |
|---|---|---|---|
| ﻯ 1 | ETH1 SPD | | ﻯ 1 ɔ ﻓﺨ 10M |
| | | ă | ﻯ 1 ɔ ﻓﺨ 100M |
| ﻯ 2 | ETH2 SPD | | ﻯ 2 ɔ ﻓﺨ 10M |
| | | ă | ﻯ 2 ɔ ﻓﺨ 100M |
| ﻯ 3 | ETH3 SPD | | ﻯ 3 ɔ ﻓﺨ 10M |
| | | ă | ﻯ 3 ɔ ﻓﺨ 100M |
| ﻯ 4 | ETH4 SPD | | ﻯ 4 ɔ ﻓﺨ 10M |
| | | ă | ﻯ 4 ɔ ﻓﺨ 100M |
| ﻯ 1 | ETH1 DUP | | ﻯ 1 ɔ ﻓﺨ ´ ﻝ |
| | | ă | ﻯ 1 ɔ ﻓﺨ ﷺ ﻝ |
| ﻯ 2 | ETH2 DUP | | ﻯ 2 ɔ ﻓﺨ ´ ﻝ |
| | | ă | ﻯ 2 ɔ ﻓﺨ ﷺ ﻝ |
| ﻯ 3 | ETH3 DUP | | ﻯ 3 ɔ ﻓﺨ ´ ﻝ |
| | | ă | ﻯ 3 ɔ ﻓﺨ ﷺ ﻝ |
| ﻯ 4 | ETH4 DUP | | ﻯ 4 ɔ ﻓﺨ ´ ﻝ |
| | | ă | ﻯ 4 ɔ ﻓﺨ ﷺ ﻝ |
| ﻯ 1 | ETH1 LINK | | ﻯ 1 link up |
| | | ă | ﻯ 1 link up |
| ﻯ 2 | ETH2 LINK | | ﻯ 2 link up |
| | | ă | ﻯ 2 link up |
| ﻯ 3 | ETH3 LINK | | ﻯ 3 link up |
| | | ă | ﻯ 3 link up |
| ﻯ 4 | ETH4 LINK | | ﻯ 4 link up |
| | | ă | ﻯ 4 link up |
| ″I ﻯ | FLink | | ″I ﻯ link up |
| | | ă | ″I ﻯ link up |
| | PWR | | ″I ﻯ ﺋﺆ Ɔ |
| | | ă | ˘ k |

ﻲ 1-15 RG-T014-FE25-SM1310 ﺞ ﻲ

| ﺞ | ﺎﻟ ﻝ |
|---|---|

| | |
|---|---|
| 1 | ˜Ω˙ OFF:˜Ω ( )˘ ON: í |
| 2 | FX1 ˆ˛ ˝I ˙ OFF:˜Ω ( )˘ ON: í |
| 3 | ھ ھ ◻ ˜Ω˙ OFF: ◻ 300s( )˘ ON:˜Ω |
| 4 | ˙ ON˙ 1552 bytes˘ OFF : 1536 bytes ( ) |
| 5 | ˆ ˥ (0180c20002~f) ˙ ON: ˆ ˘ OFF : ˆ ˆ ( ) |
| 6 | IEEE802.3X/ ˆ˛ ˜Ω˙ ON: í ( )˘ OFF : ˜Ω |
| 7 | ˜Ω˙ ON: í ( ˜ ˘ OFF : ˜Ω<br>˥ í ˘ ɑ /˜Ω ˘ ╟ LED Â LED˛ ˆ 2 / ˜Ω˜ ˘ ə˛ ˆ ə˛ ئۇ æ ¥ ḣ . |
| 8 | ɖ ˜Ω˙ ON: ˘ OFF : ˜Ω ( ˜<br>˥ ɨ˛ x ˆ Â |

## 1.8 RG-T014-FE25-SM1550

| | |
|---|---|
| ɦ ث خ ش ˆ˛ | RG-T014-FE25-SM1550 |
| SC ˝I ˆ˛ | 100Base-X |
| ˝I ˆ˛ ɔ<br>ˆ ` Æ˙ nm˜ | 1550TX/1310RX |
| ˝I ˆ˛· | ` ˝I 25km |
| ˆ˛ ˝I ˥ | -16˙ -8dBm |
| | Ů-32 dBm |
| | Ɉ ˆ AC˜ ώ˙<br>ˆ˛ ˙ز 100-240V~<br>˙ 50/60Hz<br>˙ 1A |
| ˥ | 5W |
| ɔ | -20ºC ˆ 60ºC |
| ẏ | -25ºC ˆ 85ºC |
| ɔ ˙ | 10% ˆ 90% RH |
| ẏ ˙ | 5% ˆ 90% RH |
| | |

RG

ˋ 50/60Hz

ˋ 1A

ˋ 10A

RG-T014-FE25-SM1550 ˘ ѝ ɖ ˘ ﻫﺧ ˘ ﻫﺧ ч ˅ 10cm ˘ Љ ﻫ ¥ Â ˆ 3 э У ˜˜ ó Э Â

x7$„’>ñû ,!ÀQ• 'AAÀQgð Ugp

يي 1-18 RG-T014-FE25-SM1310 ˜Ω يي

| ˜Ω | ╖ ˧˩ |
|---|---|
| 1 | ˜Ω˙ OFF:˜Ω ( )˘ ON: í |
| 2 | FX1 ˧˩˛ ˝I ˙ OFF:˜Ω ( ) ˘ ON: í |
| 3 | كم هم ◻ ˜Ω˙ OFF: ◻ 300s( )˘ ON:˜Ω |
| 4 | ˙ ON˙ 1552 bytes˘ OFF : 1536 bytes ( ) |
| 5 | ˆ ╖ (0180c20002~f) ˙ ON: ˆ ˘ OFF : ǀ ٨ ( ) |
| 6 | IEEE802.3X/ ˧˩ ˜Ω˙ ON: í ( )˘ OFF : ˜Ω |
| 7 | ˜Ω˙ ON: í ( ˜ ˘ OFF : ˜Ω<br>╖ í ˘ ɑ /˜Ω ˘ ╟ LED Â LED<br>˛ ˆ 2 /˜Ω˜ ˘ ə˛ ˧˩ ə˛ ئؤ æ ¥ ḣ . |
| 8 | ɖ ˜Ω˙ ON: ˘ OFF : ˜Ω ( ˜<br>╖ ɨ˛ x ˆ Â |

**2**

## 2.2.3

У ˜ Â ą̈ ﻫﺫ ᴇ Ɜ˘ ٨ Ʌ ʒ ˘ ᴳ a ˘ ɛ̀ ﻫﺫ ą̈ Ļ

æ ą Ю˘ ʒ ˘ a ɲ ط ʖ˘ ʒ ą Â ą̈ ʊ̈ ٧ ʿ

| | ` Æ | ʊ̈ |
|---|---|---|
| ˆ ů 0.5 ë m˜ | /m$^3$ | Ů 3.5×10 $^6$ |

### 2.2.7 EMI

ˎ ˘ ˘ ą̈ ˘ Љ ˊ ˘ ˊ ˘ ·
ң ط Â

ǂ ѝ ч ˊ ṉ· ˘ · ښ Â

У э ئۇ ˇ ˆ ˘ ˘ ǂ ئۇ ˘ ѝ Â ˆ Љ ˆ è У
ǂ ˘ ≠ ˆ Љ ώ ` ĩ Â· ң ژ ѝ б ئۇ Ǯ ą ˆ ˘ ÿ У
э ` ĩ· ǂ ˎ У э ` ĩ Â· ˛ ط ˘ ˆ Љ ئۇ ⁸ Â ط è ˙ ị ą ˆ
˘ è Â

ᵏ ˆ Â

˝I ˆ ئۇ ɔ ک а б ⊦ ک ṉ ک ˊ ˘ ˆ У Ę Â

ˆ ˆ˘ ˆ ˆ˘ Â

Â

## 2.3

˝I ṃ˘ ˝I ئۇ ښ ṉ ˝I ŭ̈ б ˝I ˆ ښ ˘ ˚ ˝I ˆ ɔ ŭ̈
˘ ˝I ˆ ɔ ѝ 1310TX/1550RX nm˘ ˝I ˆ ɔ ѝ 1550TX/1310RX nm Â а
˝I Â

## 2.4

έ ɢ `

| | |
|---|---|
| έ | π р ȁ У р ȁ Ω̃ ṉ ˝I ȁ Э ȁ ˆ ȁ |
| ж έ | έ |

## 3.3 RG-

G Э Â

ɖ ɨ Â

˝I ⅄ ئؤ a Â

فخ Ƨ نز ˆ 10 ⅄ Ƶ Э˜ Ƶ ɖ ˘ ↓ ﻫ Â

˝I ⅄ ئؤ ɔ كه ˥ ⅄ ⅄ à ⅄ ⅄ à ’ ⅄ ˘
⅄ Â

⅄ فخ ɑ̈ ˘ ˘ Ƶ ثز ɥ ⅄ à ɐ ⅄ ⅄ ﻫ Â

## 3.4

كه ʊ̆ ’

à ώ ˜Ω ʊ̆ ’

⅄ ʊ̆ فخ ɑ̈ ˘ ’ ɑ˘ ʊ̆ ɑ Ɉ à
⅄ ئؤ ’

Ƨ نز ˆ 10 ⅄ Ƶ Э˜ Â

# 5

## 5.1

## 5.2

| | ⅄ ⅄ ژ | ᾱ ᒣ |
|---|---|---|
| PWR | k<br>╟<br>Ω̃ ɣ OFF æ | k ʊ̃ ˘ б ˝I ⅄ ئۇ<br>╟˘ ˝I ⅄ ئۇ Ω̃<br>ʊ̃ ɣ ON æ |
| RJ45 ⅄<br>⅄ | ⅄ ’<br>100 ’<br>⅄ ˘ б ц Ӈ Ω̃<br>˘ ɔ ’ | ⅄ ’<br>⅄ ˘ ʊ̃ б ц Ӈ Ω̃ ɔ<br>’ |
| ˝I ⅄ | ⅄ ’ | ˝I ⅄ ’ |

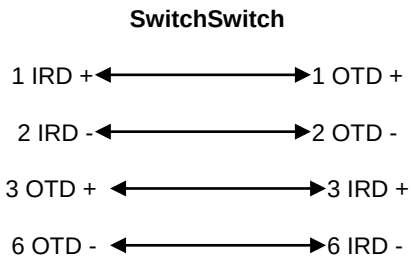
| | | |
|---|---|---|
| | ц ˝I ˆ ɔ a ˈ<br>˝I شخ a ˊ ˈ<br>˝I ˝I ˆ ئۇ ï ˈ | ѝ ɔ ˝I ˆ ئۇ ˝I<br>ˇيم ˆ ɔ ѝ 1310TX/1550RX<br>nmˇ ц ˝I ˆ ɔ ѝ<br>1550TX/1310RX nmˈ<br>ѝ ˊ ˝I ˈ<br>ˊ ˝I ˈ |

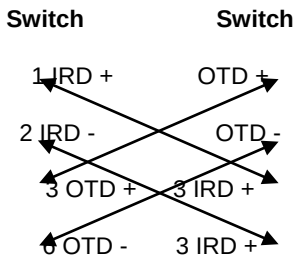
# A

## 100BASE-TX/10BASE-T

100BASE-TX/10BASE-T ч ⅄˘ فذ ч Ю ╟ MDI/MDIX Crossover ╖ Â

1000BASE-T ˊ

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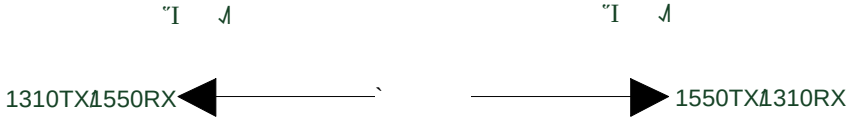
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