RG-T01

V1.00

1

RG-T01 ‟ ″I ∧ ŋǔ à æ ℸ 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 /Ɥ ∨ ˘ ᵏ ɷ ò ’ ` ∨ ă ˘ ∧ ɲ ч э
ă ᴳ a˚ è ˘ ÿ ″I ą ∧ ƒ˚ У ″I ą̈ ∨ ă· ˘ ɷ ″I ÂRG-T01 ‟ يز ط à ˘
ح à Ɥ à ɲ è ы Â

RG-T01 ‟ ″I ∧ ŋǔ ^ Ю ů ң ث’

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

″I ﻥ	FRX		″I
		ă	″I ˇ ·
			″I ˇ ﻓﺧ·
ﻥ	TRX		ﻥ Link
		ă	ﻥ link˘ ·
			ﻥ link˘ ﻓﺧ·
10/100M	10/100		″I ﻥ ﺋﯗ″Ω ﻓﺧ 10M
		ă	″I ﻥ ﺋﯗ″Ω ﻓﺧ 100M
″I ﻥ ą ﻥ	FPL		″I ﻥ ″I ą ﻥ
		ă	″I ﻥ ∫ ώ ″I ą ﻥ
ﻥ	FDX		ﻥ ɔ ѝ´ ﻝ
		ă	ﻥ ﻥ ɔ ѝ ŏ ﻝ

1.3 RG-T011-FE40-SM1310

RG-T01 A

RG-T011-FE40-SM1310

RG-T011-FE40-SM1310 ˝I ٨ ئؤ ɱ ᵏ 1 ɜ 10/100Base-T Ⱡъ ٨ ȁ1 ɜ ˝I SC ˝I ٨˘ ɨ ᵏ Ɦ
ώ ٨ ȁ ℨΩ Â

ﻲﻲ 1-5RG-T011-FE40-SM1310 ɱ ﻲﻲ

ﻲﻲ 1-6RG-T011-FE40-SM1310 ɨ ﻲﻲ

RG-T011-FE40-SM1310 ˝I ٨ ئؤ Ɦ ώ Â

Ɦ ˆ AC˜ ώ˙

٧ ﻧز˙ 100-240V~

˙ 50/60Hz

˙ 1A

˙ 10A

RG-T011-FE40-SM1310 ˇ ﾙ ﾁ ˇ ﾌﾃ ˇ ﾌﾃ ﾑ ᵛ 10cm ˇ Ⱦ ﾒ
ﾓ Â ^ 3 ﾍ ﾕ ˜˜ ﾛ Э Â

			ﾕ ﾐﾆ
	POW		˝I ﾍ ﾂﾏ Э
		ă	ˇ k
˝I ﾍ	FRX		˝I
		ă	˝I ˇ ·
			˝I ˇ ﾌﾃ·
ﾍ	TRX		ﾍ Link
		ă	ﾍ link˘ ·
			ﾍ link˘ ﾌﾃ·
10/100M	10/100		˝I ﾍ ﾂﾏ˝Ω ﾌﾃ 10M
		ă	˝I ﾍ ﾂﾏ˝Ω ﾌﾃ 100M
˝I ﾍ ﾈ ﾍ	FPL		˝I ﾍ ˝I ﾈ ﾍ
		ă	˝I ﾍ ˆ ﾱ ˝I ﾈ ﾍ
ﾍ	FDX		ﾍ ɔ ﾙ ´ ﾍ
		ă	ﾍ ﾍ ɔ ﾙ ﾱ ﾍ

1.4 RG-T011-FE40-SM1550

ﻥ ﺙ ﺵ ﻩ	RG-T011-FE40-SM1550
SC ˝I ﻩ	ù $µÕ,Ð ÐGâ8PÕðde 100Base-X 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 ‘	10% ↑ 90% RH
ẏ ‘	5% ↑ 90% RH
EMC	GB9254-2008
	GB4943-2011
^ × × ~ ^ ` Æ‘ mm˜	140× 110× 29
^ ` Æ‘ kg˜	0.5

RG-T01 A

RG-T011-FE40-SM1550

RG-T011-FE40-SM1550 ˝I ٨ ŋǔ ṁ ᵏ 1 ɘ 10/100Base-T Ɱ ٨ à 1 ɘ ˝I SC ˝I ٨˘ ɨ ᵏ Ɥ
ώ ٨ à ˁΩ Â

ييي 1-7 RG-T011-FE40-SM1550 ṁ ييي

ييي 1-8RG-T011-FE40-SM1550 ɨ ييي

RG-T011-FE40-SM1550 ″I ﾍ ﾂﾏ Ђ ώ Â

Ђ ˆ AC˜ ώ˙

ﾍ ﾂﾏ˙ 100-240V~

˙ 50/60Hz

˙ 1A

˙ 10A

RG-T011-FE40-SM1550 ˘ й ƈ ˘ ﾂﾏ ˘ ﾂﾏ ч ᵛ 10cm ˘ Љ ﾑ
ұ Â ˆ 3 э У ˜˜ ȯ Э Â

			ŭ ⱵⱾ
	POW		″I ﾍ ﾂﾏ Э
		ă	˘ k
″I ﾉ	FRX		″I
		ă	″I ˘ ·
			″I ˘ ﾂﾏ·
ﾉ	TRX		ﾉ Link
		ă	ﾉ link˘ ·
			ﾉ link˘ ﾂﾏ·
10/100M	10/100		″I ﾍ ﾂﾏ ″Ω ﾂﾏ 10M
		ă	″I ﾍ ﾂﾏ ″Ω ﾂﾏ 100M
″I ﾉ ą ﾉ	FPL		″I ﾉ ″I ą ﾉ
		ă	″I ﾉ ∫ ώ ″I ą ﾉ
ﾉ	FDX		ﾉ ɔ ﾐ´ ﾚ
		ă	ﾉ ﾉ ɔ ﾐ ŏ ﾚ

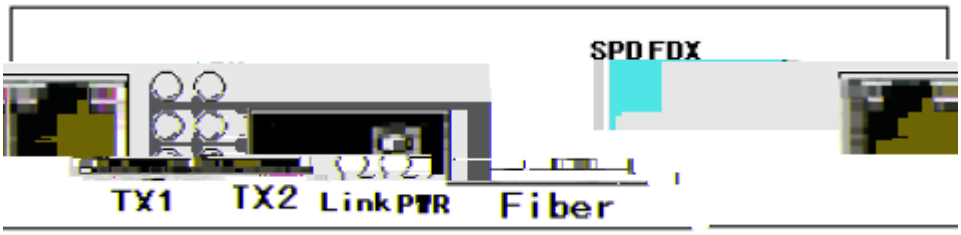
1.5 RG-T012-FE20-SM1310

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

RG-T01 A

RG-T012-FE20-SM1310 ˝I ﻥ ﺅ ṁ ᵏ 2 ɘ 10/100Base-T Ⱦ ﻥ ȁ 1 ɘ ˝I SC ˝I ﻥ˘ ɨ ᵏ Ң ώ ﻥ ȁ ʗΩ Â

ﻱ 1-9RG-T012-FE20-SM1310 ṁ ﻱ



يي 1-10RG-T012-FE20-SM1310 ŧ يي

RG-T012-FE20-SM1310 ˝I ٨ ئۇ Ђ ώ Â

Ђ ˆ AC˜ ώ‘

Ч ‘ 100-240V~

‘ 50/60Hz

‘ 1A

‘ 10A

RG-T012-FE20-SM1310 ˘ ѝ ф ˘ ƒ ˘ ƒ ч ᵛ 10cm ˘ Љ ŧ

ұ Â ˆ 3 ə У ˜˜ ó Э Â

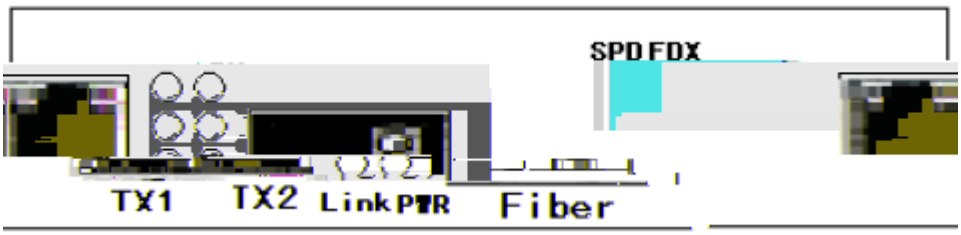
			ŭ Ł₭
	PWR		˝I ٨ ئۇ Э
		ă	˘ k
˝I ٨	Link		˝I
		ă	˝I ˘ .
			˝I ˘ ƒ·
٨ 1	SPD˜ ˜		٨ 1 ɔ ƒ 10M
		ă	٨ 1 ɔ ƒ 100M
٨ 1	FDX˜ ˜		٨ 1 ɔ ƒ´ ٨

		ă	˥ 1 ɔ ڤ ۏ ˥
˥ 2	SPDˆ è ˜		˥ 2 ɔ ڤ 10M
		ă	˥ 2 ɔ ڤ 100M
˥ 2	FDXˆ è ˜		˥ 2 ɔ ڤ ´ ˥
		ă	˥ 2 ɔ ڤ ۏ ˥

1.6 RG-T012-FE20-SM1550

	RG-T012-FE20-SM1550
SC ˝I ˥	

ﻱ 1-11 RG-T012-FE20-SM1550 ɱ ﻱ



ﻱ 1-12RG-T012-FE20-SM1550 ɨ ﻱ

RG-T012-FE20-SM1550 ″I ﻥ ﺅ Ђ ώ Â

Ђ ^ AC~ ώ'

ﻝ ﻧ' 100-240V~

' 50/60Hz

' 1A

' 10A

RG-T012-FE20-SM1550 ˘ ﻯ ɖ ˘ ﻓ ˘ ﻓ ч v 10cm ˘ Љ ɛ

ɣ Â ^ 3 э У ˜˜ ȯ Э Â

			ŭ Ⱨ
	PWR		″I ﻥ ﺅ Э
		ă	˘ k
″I ﻝ	Link		″I
		ă	″I ˘ ·

			″I ˇ ﻓﺦ·

ﻯ 1 SPDˆ ˜ ﻯ 1 ɔ ﻓﺦ 10M

RG-T014-FE25-SM1310 ‴I ٨ ڤ ṁ ᵏ 1 ɜ 10/100Base-T Л ъ ٨ ą̀ 1 ɜ ‴I SC ‴I ٨˜ ɨ ᵏ Ђ
ώ ٨ ą̀ ℨΩ Â

ﻲﻲ 1-13RG-T014-FE25-SM1310 ṁ ﻲﻲ

ﻲﻲ 1-14RG-T014-FE25-SM1310 ɨ ﻲﻲ

RG-T014-FE25-SM1310 ‴I ٨ ڤ Ђ ώ Â

Ђ ˆ AC˜ ώ˙

٧ ﻧ˙ 100-240V~

˙ 50/60Hz

˙ 1A

˙ 10A

RG-T014-FE25-SM1310 ˘ ѝ ƈ ˘ ﻓ ˘ ﻓ ч ᵛ 10cm ˘ Л ъ ɾ
ɣ Â ˆ 3 ɜ 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	ٹۆ' OFF:ٹۆ ( )ˇ ON: í
2	FX1 ٨. "I ' OFF:ٹۆ ( )ˇ ON: í
3	ھ ھ ◘ ٹۆ' OFF: ◘ 300s( )ˇ ON:ٹۆ
4	' ON' 1552 bytesˇ OFF : 1536 bytes ( )
5	^ ℼ (0180c20002~f)' ON: ^ ˇ OFF : ĺ ٨ ( )
6	IEEE802.3X/ ٧ ٹۆ' ON: í ( )ˇ OFF : ٹۆ
7	ٹۆ' ON: í (~ ˇ OFF : ٹۆ ℼ í ˇ ɞ /ٹۆ ˇ ╟ LED Â LED ^ 2 /ٹۆ~ ˇ ą ٨ ą ئۆ æ ¥ ḣ.
8	ɖ ٹۆ' ON: ˇ OFF : ٹۆ (~ ℼ ł x ^ Â

1.8 RG-T014-FE25-SM1550

ҥ ش خ ٨	RG-T014-FE25-SM1550
SC "I ٨	100Base-X
"I ٨ ɔ ^ ` Æ' nm~	1550TX/1310RX
"I ٨·	` "I 25km
٨ "I ℼ	-16' -8dBm
	Ů-32 dBm
	Ɥ ^ AC~ ώ' ٧ تز' 100-240V~ ' 50/60Hz ' 1A
ℼ	5W
ɔ	-20ºC ↑ 60ºC
ẏ	-25ºC↑ 85ºC
ɔ '	10% ↑ 90% RH
ẏ '	5% ↑ 90% RH

RG

‘ 50/60Hz

‘ 1A

‘ 10A

RG-T014-FE25-SM1550 ˘ ѝ ґ ˘ ﻓﺨ ˘ ﻓﺨ ч ᵛ 10cm ˘ Љ ғ
ұ Â ^ 3 э У ˜˜ ȯ Э Â

x7$„'>ñû ,!ÀQ• 'AAÀQgð Ugp

يي 1-18 RG-T014-FE25-SM1310 ˇΩ يي

ˇΩ	╖ ٧
1	ˇΩ′ OFF:ˇΩ ( )ˇ ON: í
2	FX1 ٨. ″I ‘ OFF:ˇΩ ( ) ˇ ON: í
3	ىك هھ □ ˇΩ′ OFF: □ 300s( )ˇ ON:ˇΩ
4	‘ ON′ 1552 bytes˝ OFF : 1536 bytes ( )
5	ˆ ╖ (0180c20002~f) ‘ ON: ˆ ˇ OFF : ˛ ٨ ( )
6	IEEE802.3X/ ٧ ˇΩ′ ON: í ( )ˇ OFF : ˇΩ
7	ˇΩ′ ON: í (~ ˇ OFF : ˇΩ ╖ í ˇ ֍ /ˇΩ ˇ ╟ LED Â LED ˚ ˆ 2 /ˇΩ˜ ˇ ą ٨ ą ئۆ æ ¥ ḣ .
8	ɖ ˇΩ′ ON: ˇ OFF : ˇΩ (~ ╖ ł˚ x ˆ Â

2

2.2.3

У ˜ Â ą ﻍ ﻩ Э˘ ﻥ Л ъ 5 ˘ G a ˘ è ﻍ ą Ļ
æ ąЮ˘ 5 ˘ a Л˛ ﻁ Ƀ˘ з ą Â ą ǔ ﻝ ‘

	` Æ	ǔ
ˆ ﻍ 0.5 ë m˜	/m^3	Ů 3.5×10^{6}

2.2.7 EMI

ﻝ ˘ ˘ ﷺ ˘ Ⱡъ ˇ ˘ ˇ ˘ .

ң ﻁ Â

ǂ ѝ ч ‘ ⱡ· ˘ · ﷺ Â

У э ﬦˇ ∧ ˘ ˘ ǂ ﬦ ˘ ѝ Â ∧Ⱡъ ∧ è У

ǂ ˘ ≠ ∧Ⱡъ ŏ ` ĩ Â· ң ﷺ ѝ б ﬦ Ǯ ą ∧ ˘ ÿ У

э ` ĩ· ǂ ﻝ У э ` ĩ Â· ˛ ﻁ ˘ ∧Ⱡъ ﬦ ⁸ Â ﻁ è ˙ ı ą ∧

˘ è Â

ᵏ ∧ Â

″I ∧ ﬦ ↄ ﻙ a б ﻑ ﻙ ⱡ ﻙ ˇ ˘ ∧ У Ҷ Â

∧ ∧˘ ∧ ∧˘ Â

Â

2.3

″I ṃ˘ ″I ﬦ ﷺ ⱡ ″I ŭ б ″I ﻝ ﷺ ˘ ˚ ″I ﻝ ↄ ŭ

˘ ″I ﻝ ↄ ѝ 1310TX/1550RX nm˘ ″I ﻝ ↄ ѝ 1550TX/1310RX nm Â a

″I Â

2.4

é ɢ `

é	π р à У р à Ѯ ⱡ ″I à Э à ∧ à
ж é	é ˆ[Ad•8… •þe 3 b 0f ç*ü ¹ K

3.3 RG-

G Э Â

ɖ ɬ Â

″I ٨ ؤ a Â

ڂ Ƨ ɲ ^ 10 ٨ Ʌъ Э˜ Ʌъ ɖ ˘ ɬ ڌ Â

″I ٨ ؤ ɔ ك ٣ ٨ ٨ à ٨ ٨ à ’ ٨ ˘
٨ Â

٨ ڂ ƍ ˘ ˘ Ʌъ ɲ ɳ Ч à ą ٨ ٨ ﻣ Â

3.4

ك ŭ ’

à ώ ˜Ω ŭ ’

٨ ŭ ڂ ƍ ˘ ’ α˘ ŭ ɷ Ɥ à
٨ ؤ ’

Ƨ ɲ ^ 10 ٨ Ʌъ Э˜ Â

5

5.1

5.2

	∧ ∜ ŝr ∧	ᾱ ¬
PWR	ᵏ ╟ ẑΩ ¥ OFF Æ	ᵏ ŭ̆ ˘ б ″I ∧ ŋǔ ẑΩ ŋǔ ∧ I″ ˇ╢ ŭ̆ ¥ ON Æ
RJ45 ∧ ∧	∨ ’ 100 ’ ∧ ˘ б ц Ђ ″Ω ˇ ɔ ’	∨ ’ ∧ ˘ ŭ̆ б ц Ђ ″Ω̊ ɔ ’
″I ∧	∧ ’	″I ∧ ’

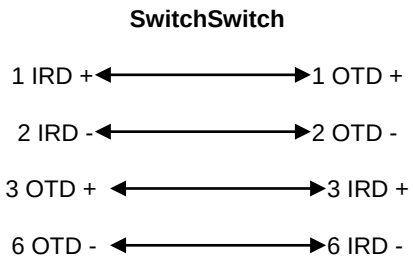
й ɔ ″I ﺉ ؤ ﺍ ″I ﻱﻡ ˇ ﺍ ɔ й 1310TX/1550RX nm ˇ ц ″I ﺍ ɔ й 1550TX/1310RX nm’ й ˇ ″I ’ ˇ ″I ’	ц ″I ﺍ ɔ a ’ ″I ﺵﺥ a ˇ ’ ″I ″I ﺉ ؤ ﺍ ï ’	

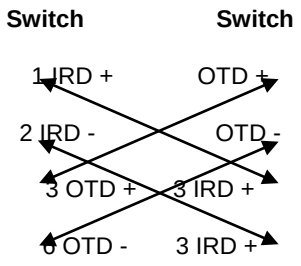
A

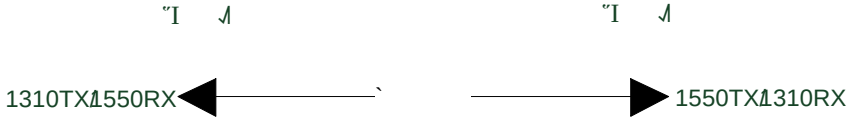
100BASE-TX/10BASE-T

100BASE-TX/10BASE-T ч ﻯˇ ﻓﺫ ч Ю ╠ MDI/MDIX Crossover ╗ Â

1000BASE-T ˝





ұ ″I ٨ ″I يم ىشخ ` ″I ÂRG-T01 ‟ ″I ٨ ѝ ` ٧ ă ٨ ˇ ٨
У ″I ˇ ″I ٨ ɔ ∫ ѝ 1310TX/1550RX ɲ 1550TX/1310RX ч ˇ ф ч ɔ ˇ
¨ ɔ ѝ 1310TX/1550RX ɔ ѝ 1550TX/1310RX Â يي A 4

يي A 4 ″I يي