RG-SF2900-S x@&

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1 C | O ”

■ RG-SF2900-S 3+GÛ3T h× õ

× ñ	10/100Base-T 8 F 2 Ä Z5 1	10/100/1000Base-T 8F2Ä51	1000Base-X SFP	Console
RG-SF2900-8GT2SFP-S	\	8	2	1
RG-SF2900-8GT2SFP-P-S	\	8(1 PoE+/PoEÅ	2	1

SFP ዓ 100Base-FX س 100Base-FX ىج

1000Base-T ዓ 100Base-TX م 10Base-T

1.1 RG-SF2900-8GT2SFP-S

P á ? d

× ñ » '	RG-SF2900-8GT2SFP-S
CPU	µ5ž CPU È … h 4*6 ˜ È kNÁ 500MHz
Flash Memory	32MB

Œ)ß ¶	10% ` 90% RHÄ Å
Ø)ß ¶	5% ` 95% RHÄ Å
Nþv	Nþv
¥ÉA–	=1¥ÉAÝ-
y ¶Ç	=1y ¶Ç

RG-SF2900-8GT2SFP-S G+X8f² jÄÀ77-Xßß¦È Xn5ž1ÅXj1ã× ú

>M¯‰ã 10cm ,0ÈÐ,ÆJÄ Ê LHÆÄÞ 3 Z8 0Q ÈÅeÆ5(Æ

Ce

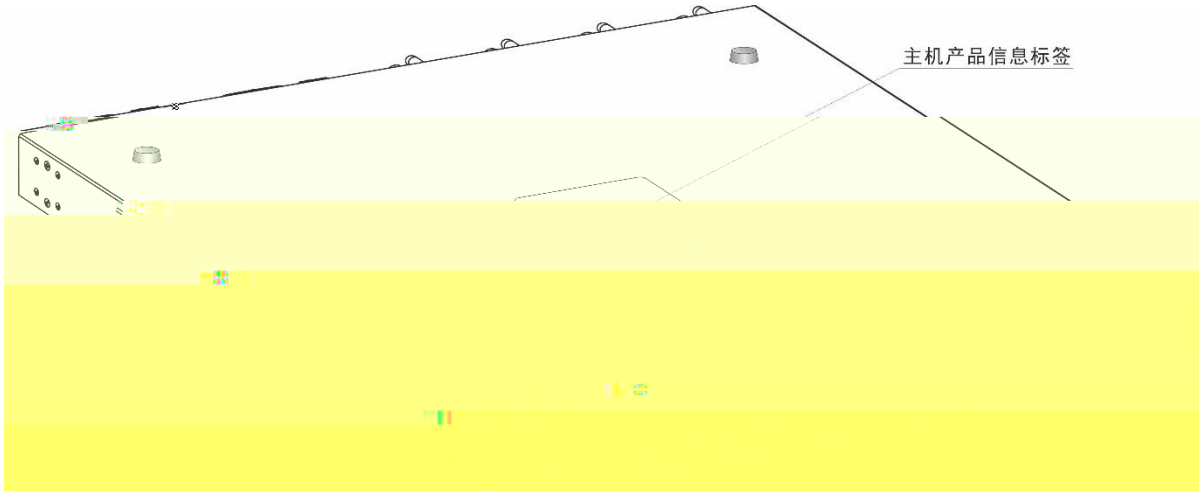
7/j&Ÿ	M’ ¯ 7Aö	(æ 1	[y
(æ 1 7/j&Ÿ	Status	7/j&Ÿ&•	Ô ’ j"Ñ 9 :+e
		5/8¢L &ñ	Ô ’ j!“ X M û F È9 0-$L &ñ I>˜/j 2 h
		5/8¢ h Þ	Ô ’ j !“ h Ô ’
1000Mbps RJ-45 Õ 7/j&Ÿ	1-8	7/j&Ÿ&•	1 Z Link
		5/8¢ h Þ	1 1000/100/10M Link Up
		5/8¢L &ñ	1 1000/100/10M ž f
1000Mbps SFP Õ 7/j&Ÿ	9F-10F	7/j&Ÿ&•	1 Z Link
		5/8¢ h Þ	1 1000/100M Link Up
		5/8¢L &ñ	1 1000/100M ž f

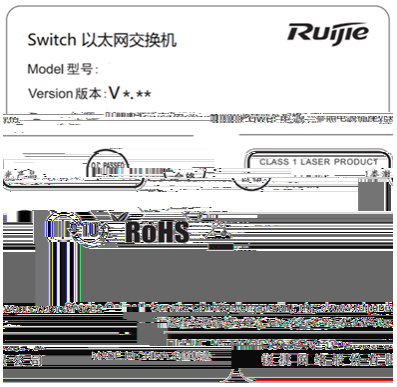
1.2 RG-SF2900-8GT2SFP-P-S

P á ? d

× ñ » '	RG-SF2900-8GT2SFP-P-S
CPU	µ5ž CPU È … h 4*6 ˜ È kNÁ 500MHz
Flash Memory	32MB
SDRAM	DDRIII256MB
_ 1,´ y Q ‡2« »	ò63Lt … B Ä = _ 1K 56 Å

Œ)ß $Ö	-5ºC ` 55ºC
Ø)ß $Ö	-40ºC ` 70ºC
Œ)ß ß	10% ` 90% RHç Å
Ø)ß ß	5% ` 95% RHç Å
Nw	Nw
$ØA–	=1$ØAÝ-
y ç	=1y ç
EMC	GB/T 9254.1
	GB 4943.1
Eý%?eq	0 1.5mA
j(× $ ×	300x220x43.6
. mmÅ	
G . kgÅ	2kg >Å (KA7 Å





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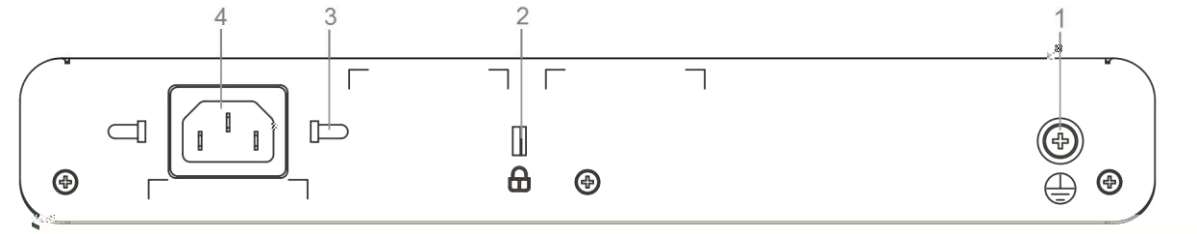
RG-SF2900-8GT2SFP-P-S Z5



6Ü	7 Õ	9 +e¾Lb7ai'-	
	8 Lb-„	: AC +e¾Ã	

bCq

RG-SF2900-8GT2SFP-P-S G+X8f² jÀA77-X¸ÞE Xn5ž1¾Xj1Ã×

á M¯Fœã 10cm ,0¹¾D,¼JÄ Ê LHÄÞ 3 Z8 0Q È¾eÆ5(¾e

Ce

7/j&Ÿ	M' ¯ 7Aö	(æ 1	[y
(æ 1 7/j&Ÿ	Status	7/j&Ÿ&•	Ô ' j"Ñ 9 :+e
		5/8¢L &ñ	Ô ' j!" X M û F È9 0-$L &ñ I>˜/j 2 h
		5/8¢ h Þ	Ô ' j !" h Ô '
PoE 7/j&Ÿ	PoE	7/j&Ÿ&•	1 7/j&Ÿ 7/j Ô '(æ 1
		5/8¢ h Þ	1 7/j&Ÿ 7/j PoE Ë+e(æ 1
RJ-45 Õ PoE (æ 1 7/j&Ÿ	1-8	7/j&Ÿ&•	1 PoE Z Ë+e
		5/8¢ h Þ	1 PoE !" h Ë+e
		5/8¢L &ñ	1 PoE E÷E-
1000Mbps RJ-45 Õ 7/j&Ÿ	1-8	7/j&Ÿ&•	1 Z Link
		5/8¢ h Þ	1 1000/100/10M Link Up
		5/8¢L &ñ	1 1000/100/10M ž f
1000Mbps SFP Õ 7/j&Ÿ	9F-10F	7/j&Ÿ&•	1 Z Link
		5/8¢ h Þ	1 1000/100M Link Up
		5/8¢L &ñ	1 1000/100M ž f

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2.1 µ4ì Ž `

م سر RG-SF2900-S ډ

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2.1.1 G µ

- 1j1$1ÈÄ
- =8A7nX>ÇjÄ
- ¥>5Ô=0Ô>“È Fd7->Ô7JÕ+OÄ
- A7È65jÈEp9+eÈ9+eÈe56Ä

2.1.2 ? 6 µ

- ÄÑN4Ò+Ø7Ä
- 0+Ø7ÈE}a77JE7Ä
- 0+Ø7Èp9+eÈ9+eÈe56Ä

2.1.3 Ô) µ

- F>|+eDÈ¥X,83Ä(8-(ÄCtlÄ
- XA7¥Ò4A7ÒXL Èe,+eÈÕ%¥y Ä
- X A7¥ÈÔWU+eL(,5Ø+OÒØý9+eÄ
- mG¥0Z¥+e5Ô
- M0Ø+eÈØÔÄÔ
- B¬º A7nX%È2ÈA71Ä

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ل ل ˇ ل ل

2 20ˆ n ˆ ≤ 1.5mA

م 30mA 30mA ل ˜ <10

ل /2/ ˆ =30/2/1.5=10 30mA ل ˜ 10ˆ

20ˆ 2 30mA ل ل 10ˆ

م n ل /2>

لج 30mA لج

15mA سر 15mA لج ∩ قد

لج

30mA ≤ 30mA لج

م

2.2.1 ù • bCã L -

RG-SF2900-S 3+G 3+GÔ Ä X j1 ã× ú M¯ +¢ã 10cm ,0ª ¿Ò ,ª JÈ F>Ä F
Ó ½64Þ Ê6@4F ª 6 n5 X G¼ è Ê NÊ LªÄ Þ 3 Z8 È Ê eŽ
j ‡5 (Ä e

2.2.2 t … x y … L -

j Añ Aî 7 !“ h Œ ¼ ¯ +X / - È j o µM05$ 1 0 Ê, ´ $Y Ö ¼$¯ Ö Ä ² Ì j oK¯ O 4 ¾ =1V 8$Y Ã$¯ Ö?± "r, ´)ß ³ È 6 J)
Aî 7FP @ • • Ä

- 4¾ ( ) Ê Ò Ê FP@55H Ê 5H=8 Ê J8‰ ? e× 9 Ê +O Ê V7-F Ñ Ê Ž Ê <1y
) Ê Ä
- 4¾ ( ) Ê ÷ ,) Ê 5H(wJ Ê YÈ Ê × +OM‰ e Ê 7 ; ÷ eDÄ
-) Ê Ë Ê Ê È Ê AÙ 7 , W7-WWL } - È J,8 Ê 7 Ê *) Ê / ¼ g, ´ Ê Ä

RG-SF2900-S 3+GÔ Ê 7)) Ê Ê Ê ˜ Ö

) Ê $ Ö	) Ê -( ) Ê Ð
-5ºC-55ºC	10%-90%Ê

م

سر u غي 1.5m 0.4m

2.2.3 M Ó … L -

& H)Aî 7F >| _ 0 W ¡ ã Ä Ô µ& H:m X j ƒ : È FP @M‰+e hLt È ¯ H Ž Õ&é Õ@ =8Ÿ È T ¦ _ X Ô µ-( )$¯ Ö • ~
, ´ õ å ; È $ CFP @F /ýM‰+e hLt È = v J ¡ ýAî 7 / - È6< D é CFP @FJ uLÌ Ä) j o µ& H [Gÿ ú2Â ´?±"r ² ;>˜ Ä

Ê		}..	Gÿ
Ê 2 Ê Ê	0.5- mÅ	2Â/ m³	0 3.5h 10⁶
Ê 2 Ê Ê	5- mÅ	2Â/ m³	0 3h 10⁴

2.2.4 ñ s ä L -

Ô ' j X ¯+X] 7- ` •8 3+5 FG ,´ ¢ È Ë ¢ FJE÷+e é6V 8 Ã+e O6V 8 Ã+e.ñ# EÀ 4 Ãœ ¡Lk ÇÄ 5 Õ `3+5 Å 6V 8 ¼ ,4ï Ä+e$À4ï Ã '4ï ¼EÃ *4ï1y Å,´ P , é ?)Aî 7 ×+O ¡ ý Ä j!" Ä# ? Ö

- ê e3+5j TN 3+5ê e ÄS+X9 Ä PE Å(94ï+e È7%#eD7-9x,´ %L¹+e5 Ä
- j 4ï+e4 ÑME¼ Ñ Á V+e 7 Ä
- +e.ñ,ê e56G+Xm+e56 Ä
- e56 XÔ4 gFC4 bM¹+e× +O,E+e +e 7' Ä

2.2.5 x ž / © L -

8Ÿ -,´ Õ `3+5 _ RG-SF2900-S 3+GÎ ñ 0c F>|*.p bM¹+ 9A7
ê 8,ê Ô ð j, u ê

غي	غي

µ©

¯+X Ô#q+e,´Aî 7 õN«FJE÷Tô5/8¢ ¹ ˜ `4ï Õ ` È V I ƒ Aî 7 µ,´+e$À > j # {L$,´5 5H+eLk ? & È J ,8$+e + T ã Ä

	غي	غي			
u		Ո˜	غي	u	غي
	غي	غي			
	سر				
		غي	م	u	
غي		0.75	18AWG		
	3			0.75	18AWG

y©

Aî í,´M'+e Ô3+5 _ 0 Z) 0û,´3+5 È+aF¯M'J¸ Ã; , ƒ ¼ > Õ `3+5 -(F ,´ Õ d4ô @ Ä Õ `3+5 FJ h >+X Œ+e$À ò63 ` úTô5/8¢ ¹ ˜ `4ï,´ Õ ` _ ¡+X,´ ÄM'+e n+e Õ ` õ)Aî í6<@0 ÈAî 7"Ñ 9F Z?±"r Ä

®

* ¾+e.ñ ¬ éAîAÑ6<?±"r,´ Õ ` È5 Ö•;m Õ ` Ã‰ # ˜ Õ ` Ãš ¼ ¢ Á f Ã+e £ ò63 Ä:F ' @ ¶ Õ `,´5, 8?±"r Ä Õ `4ï,´+eLk l?±"r ? ¾ 1ΩÂ

RG-SF2900-S 3+GÎM¬‰ 1 ZÐ . 2-1.

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3 C | é G

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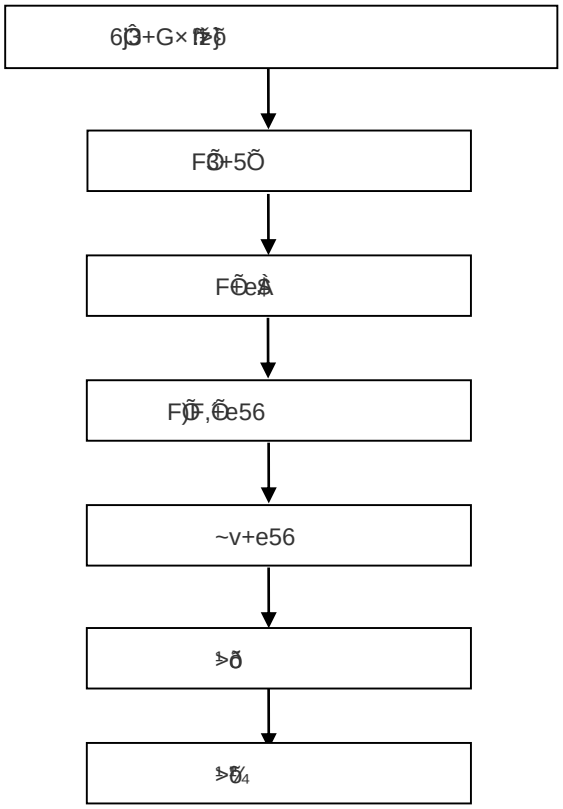
3.1 G W 8



3.2 G ø \

X ¹>õ }B'.žAÔ ; &é Ö

- Ä
- Ä
- Ä
- Ä

3.3 G RG-SF2900-S x æ @ & ² C |

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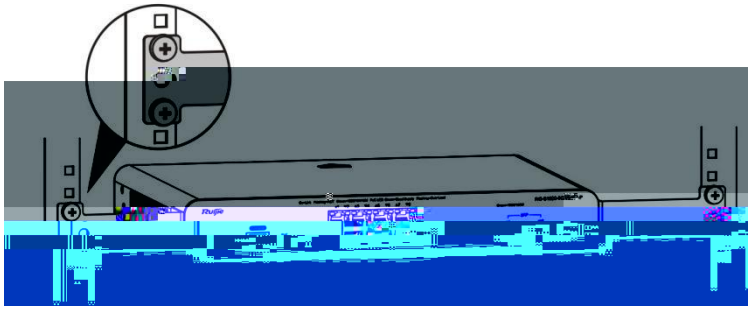
¹>õ & ÈB'# ? ; &é Ö

- ÆX)Ñ8¢+eÅF()ÇÕ
- .ž+eÅe4¡ÕA7,+eÅ@8ÄX7X+eÅ>Ê+eÅ+X+eÅLb7ÆÕ
- U/Ä RG-SF2900-S 3+GA7é5ž(Ñ
- XA79CÕ,FJNÞ¹LÅ 10



3.3.2 0 @ & ² G § Ë Ï

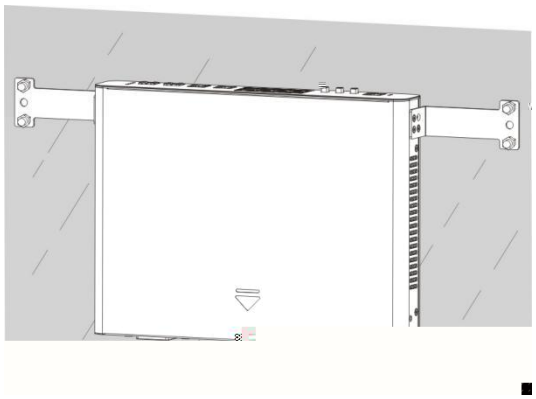
RG-SF2900 ÛLtF126c1Ø Q È5 0ÇÐ

1\0Ð-ØÄ26cGÞ>Ø26c<j26ÈÂ6cÆœ 90 ØÞ1>ÞØ 3-4 p/jÄ

. 3-4 A7Ø26c>õ?0

1\ØX7ØØe6jÞÈÆ 3-5 p/jÄ

. 3-5 A7Ø26c>õ?¼



3.3.3 0 @ & ² G § æ „

1 4 3-6 p/jÄ

3-6

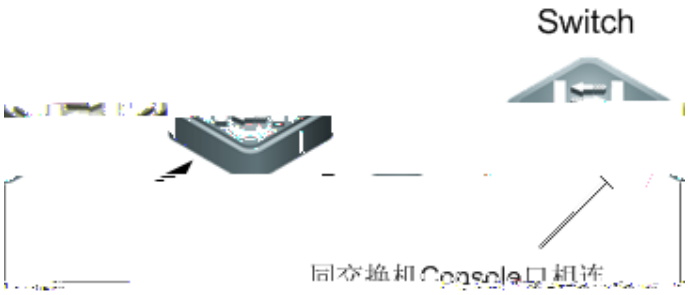
4 x ž • p

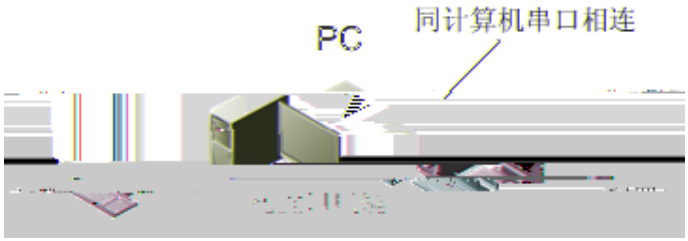
4.1 @ Ž• p º Ê

• p @ Ž º Ê

PC FJE€5ž e56>ÞÕ Console -(F€È . 4-1 p/jÖ

. 4-1 G5ž?





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- 6G5ž e56,´ DB-9 ¿ÞÞ>G5ž PC ,bÄ
- 6G5ž e56,´ RJ-45 01FÕ× fÄ ConsoleÅ

f´ ƒ Ò

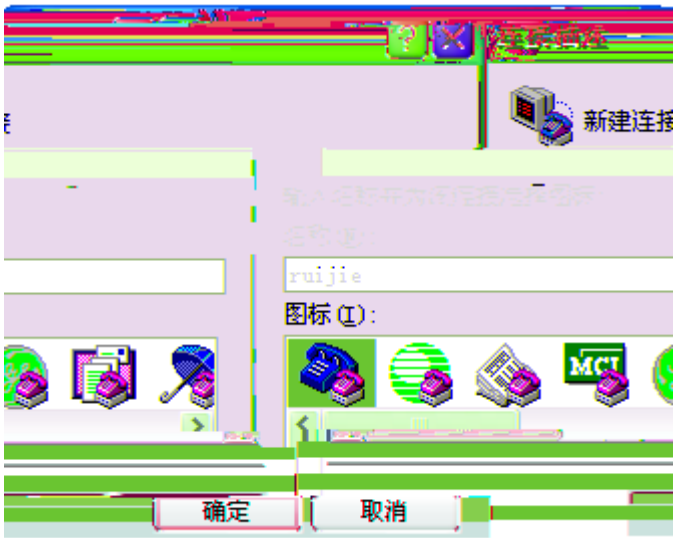
- 1\0ï PC PC F>Ì/-O0Ä Windows3.1 ,´ TerminalÈ Windows 95/98/NT/2000/XP ,Cµ 4× 4ÅÅ
- 1\ 9600 8 1

1) 0û -0¿ -Lt& -FJAß -C 4× 4 C 4× 4 0 +5i*² . 4-2 p/j,ÌÄ

. 4-2

2) 5i*² . 4-3 p/j,MÄ

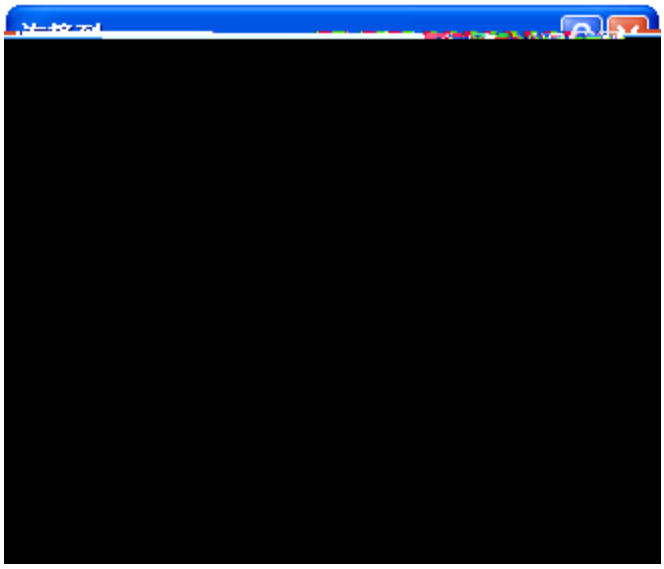
. 4-3



3) XF+M0 È. <.È >9J+5i*² . 4-4 p/j,M'XF0

F9FX,bÄ

. 4-4



4) bF9%E. <.E >9JE+5i*² . 4-5 p/j,FDA5žMA5(©)j 9600E
8wPjE 1È fjÄ

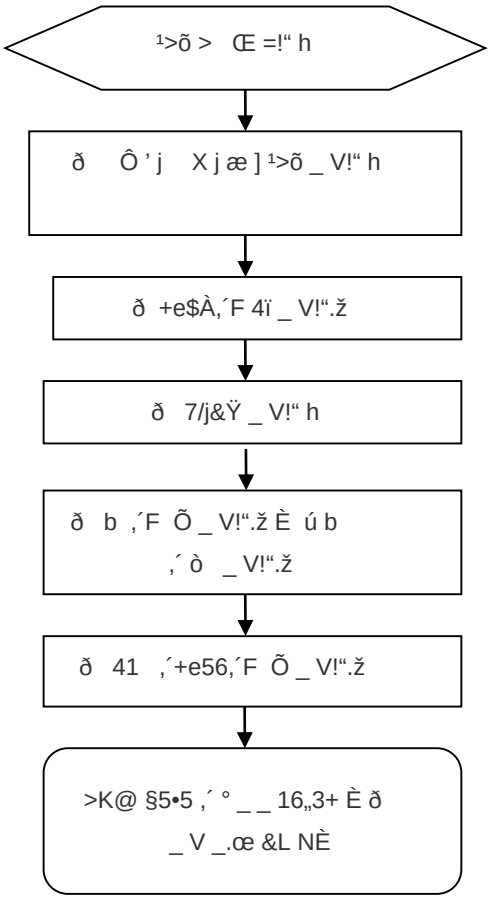
. 4-5

5) bA5@>E. <.E >9JE+5F² . 4-6 p/j,C1× 4+MÄ

. 4-6

5 G é n N \ m Ó Â

5.1 G \ m - Ó ù Đ W 8



5.2 n N \ m Ó Â

uLÌ)àB‘	7- Ï	@ ã Î#
Aà1Ñ*6+|M’,« … ö.1	ê jG}5ž ö.1 >F‡	B' >K@ §5•5 Ò g = ÑG ° _ _ 16„3+ Ä
0 j > status &Ÿ = Þ	+e$À Z Ë+e Ã+e$À4ï ® Ø	ð j o Ë+e × _ V!“ h È > Ô ’ jF Õ,´ +e$À4ï 9 ® Ø Ä
b × f EÃ * F65EÃ * ¡.1	F Õ Ô ’ j,´ b >G}5žEŸ & ƒ 0,´ b = 08$ × b G}5žKIB Ä	$ iG}5žEŸ & ƒ 0,´ b jF Õ Ô ’ j,´ b × h) b ò G}5ž _ V > b G}5žB$ >,´ ÿF 08$ Ä
RJ45 1 # F FJ F65 f W *KI	F Õ ü5 4ï uLÌ × 4ï56K¯ ÖCµ *100 2£ × 1 9(©!ºG}5ž È > ÂF Ô ’ j"Ñ 9 ¡ < ,´ Œ Q ? Ä	$ ’ ü5 4ï × ð 1 G}5ž È _ V > ÂF Ô ’ j 9 ¡ < Œ Q ? Ä

y4FJ	11F× y ×iG× y4 ×1V8× y4 y j,	B3y4 1× / y × V8 y4

\¢ A

1000BASE-T/100BASE-TX/10BASE-T O L

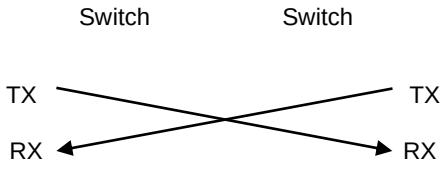
1000BASE-T/100BASE-TX/10BASE-T 1̲9/₣O)8F2Å1Ì̲EXF9/₣O);8Ø MDI/MDIX Crossover ‚Ï-Ä

. A-3 100BASE-TX/10BASE-T

Switch Switch	Switch Switch
1 IRD +1 OTD +	1 IRD + 1OTD +
2 IRD -2 OTD -	2 IRD - 2OTD -
3 OTD + 3 IRD +	3 OTD + 3 IRD +
6 OTD - 6 IRD -	6 OTD - 6 IRD +

) ¾ y4Ô ÄB i ž p Õ,´ y4Ô Q ‡,´2« » ÈF9 … Q F J Q y4ÔF >|F Õ È ¦F Õ/j ? . ² . A-4Ö

. AÉ 4 y4ÊÕ?



\¢ B Mini-GBIC ± y *ƒ*

\ œ (i ž Ô ’ j Q ‡,´ Õ 2« » Ë ¶-(ÄG} ‡ ¯+X,´ SFP Mini-GBIC

Mini-GBIC-ZX100	1550	.Q	Yes	0	5	-30	-9
SDH155-SFP-SX-MM850	850	J Q	No	-10	-4	-25	0
SDH155-SFP-SX-MM1310	1310	J Q	No	-20	-14	-30	-14
SDH155-SFP-LH15-SM1310	1310	.Q	No	-15	-8	-28	-8
SDH155-SFP-LH40-SM1310	1310	.Q	No	-5	0	-34	-8
SDH155-SFP-LH80-SM1550	1550	.Q	No	-5	0	-34	-8
GE-SFP-SX	850	J Q	No	-9.5	-3	-17	0
GE-SFP-LX	1310	.Q	No	-9.5	-3	-20	-3

= B-2 - SFP Ô L ± é ¹ Y

7 ö	1000Base-T SFP × ñ » '	_ 1 DDM(Yes/No)
1000Base-T	Mini-GBIC-GT	No

=

SFP			(um)	
Mini-GBIC-SX	LC		62.5/125	275m
			50/125	550m
Mini-GBIC-LX	LC		9/125	10km
GE-eSFP-SX-MM850	LC		62.5/125	275m
			50/125	550m
GE-eSFP-LX-SM1310	LC		9/125	10km

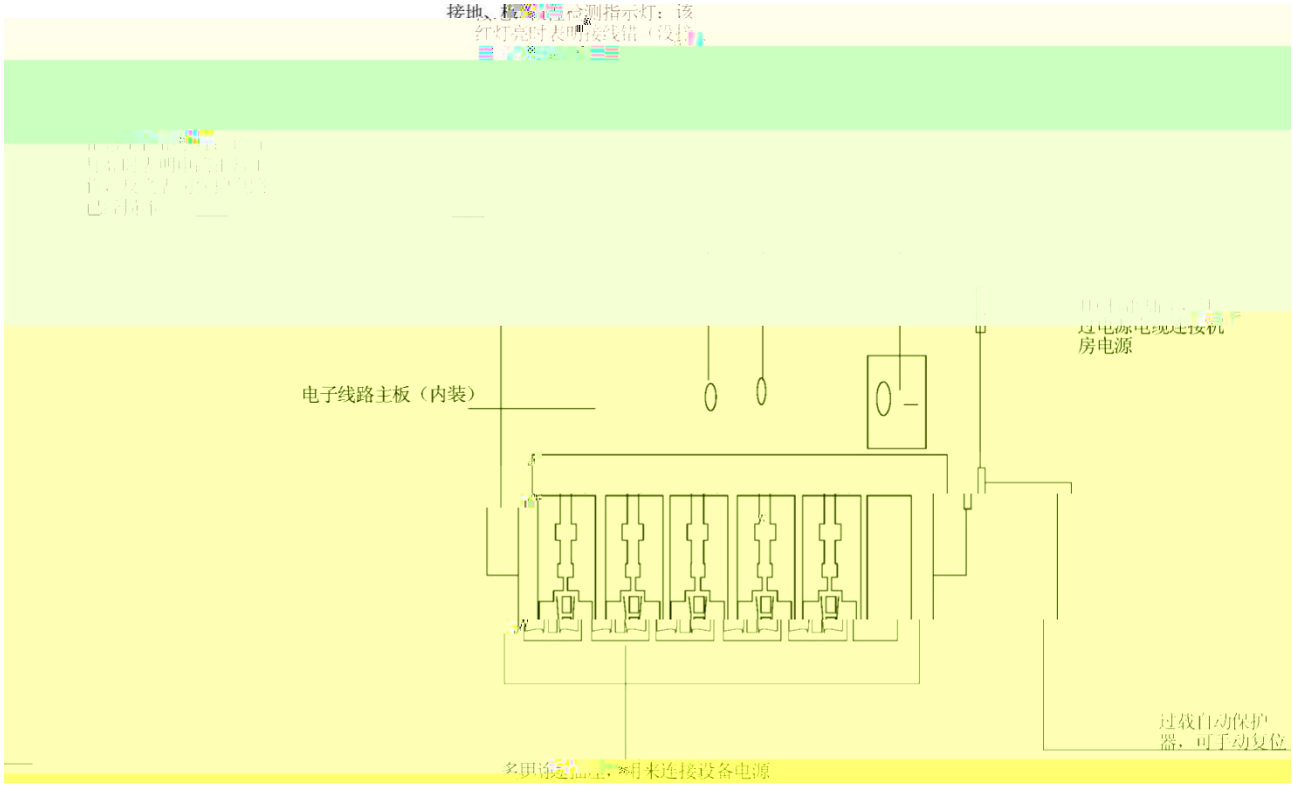
Mini-GBIC-GT	RJ45 54ï

\¢ C

@ W Ô | y — c T y / Ž - d é G

ƒ Ô#q+e$À4ï þ g F E • È-$ Õ Õ ` Ô ’ j+e$À & È Ô#q+e$À ÄG÷+X F ÕLbM' Õ4ï Â,´ é ? •Lb!’ Ô ’ jF• M' + Ä LbM' Õ4ï Â +X4ï “ ¼=êJ¹ * Ê X j Ã Œ F j o,´ É ñ : Ä¯+X & È Ô#q+e xF •LbM' Õ4ï Â È4ÿLbM' Õ4ï Â > ½ F • Ô ’ j Ä

. C-1 +e



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■ +e PE 1Õ Ä

■ 6jeF+e

■)¼e*)a4CD,G6þ6*4

+e PE 1

PE 1.

L y

Ô ’ j ¯+X] È9 9 * g5•4ïF • Ô ’ j,´ õ å È B' XB '4ïF • Ô ’ j Õ } x b Õ5• F¯M' ˜ È F¯ } Ô ’ j M'
+6< • • Ä

M0 Ö 0 M0 Ã+X>

1) 7 d,0M 7 d2 5F M F 7 d,0M 5F M
2 dX F M2 d

2) D/ 5F M 4 4(*3WX

3) +X7+X> 5F M V> 8Ÿ ×

4) 95F MB 5F M+X5E e56F 4 e56Õ IN 1
,E e56Õ OUT

5) +XlU 6+e565~

. C-2 5F M

	10/100M		RJ-45		
				U	

- Lu F M W7-
- 5F M “IN” “OUT” Â
- 5F M 4 G >È
  B'+X7+X>
- 5F M 7) e56*g5 0Z 9,+e56*g5
  M X Ä

\¢ D

- =<2« ,´+e56Äe¾ÀÃÕ1yÅjÃ0C4Ã~ÈÇX0CÃ/E¯FÖ÷
  Ô¼ÃC4ÃeËe56>¼ïLÐÄ?¼ 30mmÄ
- jÈ,54ÃÔ¼ï-ý%Ã,ÍÄ
- +e560Cº ,HÃy%,ÃÇ¤6B6,>MÈ>Ô55H>Ãe
- 5~+e56Ä9F2Ã¼ÈÇXTiFTi;4FÕ+X¾ÄÄ
- +X4Ô+e565~>ÃJ%¤6ÃÃ%¤ÈÇ%7JÄ D-2 p/jÄ

. D-2 +e56v~/j2Ã¼

-

-)
- B/+X8k=
- <02
- 4

+e56 mm	5~ mm
10	80~150
10~30	150~200
30	200~300

- ++.e56C4F65v~=
-)

RG-