RG-SF2900-S

copyright © 2023

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■ RG-SF2900-S 3+GĴ5T h× Ñ

× ñ	10/100Base-T 8 F2 Ä Z5 1	10/100/1000Base-T 8F2Ä5 1	1000Base-X SFP	Console
RG-SF2900-8GT2SFP-S	\	8	2	1
RG-SF2900-8GT2SFP-P-S	\	8(1 PoE+/PoEÅ	2	1

SFP ϟ 100Base-FX سر 100Base-FX نج

1000Base-T ϟ 100Base-TX م 10Base-T

1.1 RG-SF2900-8GT2SFP-S

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

Œ)ß Ö	10% ` 90% RHÄ Å
Ø)ß Ö	5% ` 95% RHÄ Å
Nþ	Nþ
$ÖA–	=1$ÖA7-
y ÜÇ	=1y ÜÇ

GBnBT/F10 9 Tf1 0 0 1 226.0505 743.5 Tm0.2 g0.2 G -0..74.381%

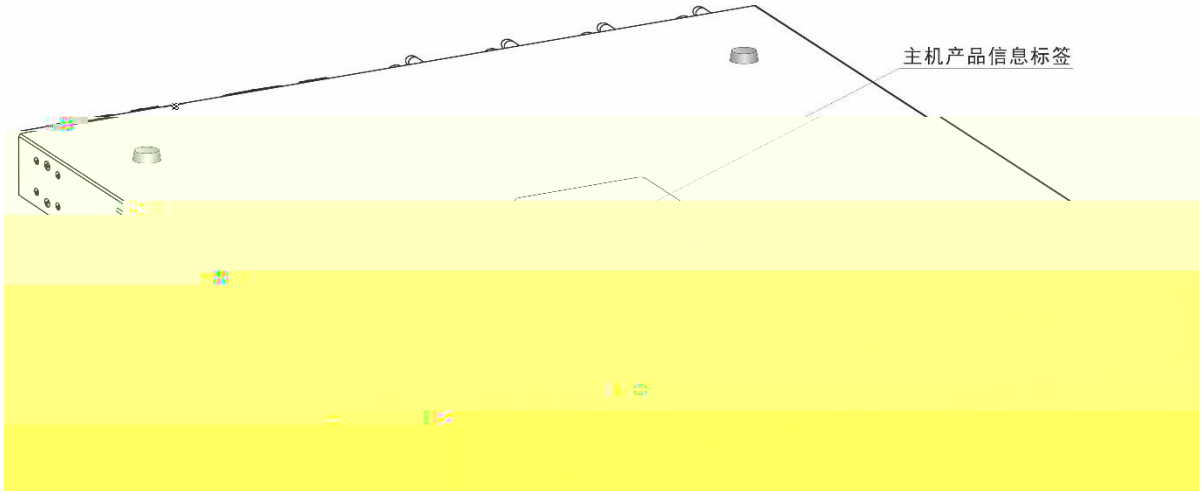
RG-SF2900-8GT2SFP-S G+X8f° ÄÌ77-XÊÈ Xn5ž1ÅXj1ã× ú
>M+Ca 10cm ,0ÈÈD,ÄJÄ Ô LHÄÞ 3 Z8 0Q ÈÈ ÈÈ5(Ä

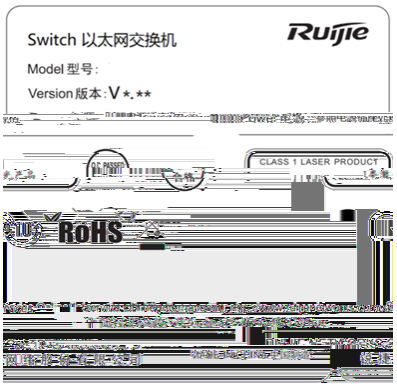
7/j&Ÿ	M’ ¯ 7Aö	(æ 1	[y
(æ 1 7/j&Ÿ	Status	7/j&Ÿ&•	Ô ’ j"Ñ 9 :+e
		5/8¢L &ñ	Ô ’ j!“ X M û F È9 0-$L &ñ I>˜/j 2 h
		5/8¢ h Þ	Ô ’ j !“ h Ô ’
1000Mbps RJ-45 Õ 7/j&Ÿ	1-8	7/j&Ÿ&•	1 Z Link
		5/8¢ h Þ	1 1000/100/10M Link Up
		5/8¢L &ñ	1 1000/100/10M ž f
1000Mbps SFP Õ 7/j&Ÿ	9F-10F	7/j&Ÿ&•	1 Z Link
		5/8¢ h Þ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

1.2 RG-SF2900-8GT2SFP-P-S

× 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

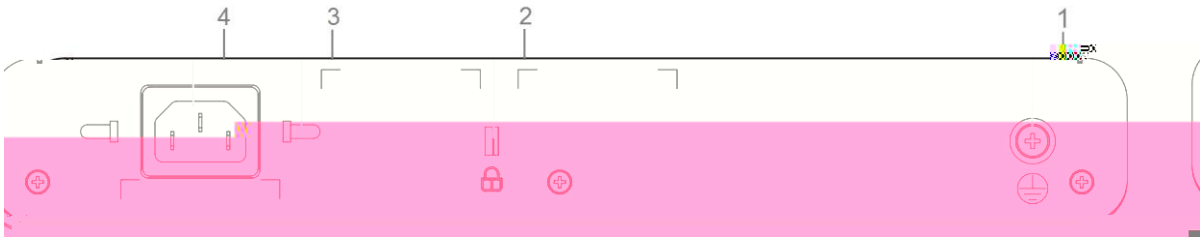
Œ)ß $Ö	-5ºC ` 55ºC
Ø)ß $Ö	-40ºC ` 70ºC
Œ)ß Ö	10% ` 90% RHÄ Å
Ø)ß Ö	5% ` 95% RHÄ Å
Nw	Nw
$ÖA–	=1$ÖAÏ-
y Ö	=1y Ö
EMC	GB/T 9254.1
?	GB 4943.1
E)%?eq	0 1.5mA
j(Ä × $ ×Å j. mmÅ	300x220x43.6
GÖ kgÅ	2kgÄ>Å (ÄXA7ÅÄ





Կ	“ ”	50
Կ	سر لج	**

RG-SF2900-8GT2SFP-P-S Z5



GÖ	7 Õ	9	+eÀLb7ai‘-
	8 Lb-„	:	AC +eÀÃ

RG-SF2900-8GT2SFP-P-S G+X8fe² jÄÀ77-X8ÊÈ Xn5ž1ÅXj1Ã×

úM¯Ÿã 10cm ,0ÈÈD,ÈJÄ Ê LHÄÀÞ 3 Z8 0Q ÈÅeÿ5(Ä

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

2

2.1

📖	م	سر	RG-SF2900-S	ﻫ
📖	ﺍﻟ			

2.1.1

- 1j1$1ÈÄ
- =0A7nX>CjÄ
- >5Ñ=0Ò=È Fd7->Â7J2+OÄ
- A7e65ÈEp9+eÈ9+eÈe56Ä

2.1.2

- ÄÑÁ0+Ø7Ä
- 0+Ø7ÈÈ]a77JÈ7Ä
- 0+Ø7Ãp9+eÈ9+eÈe56Ä

2.1.3

- F>|+eDÈ<pX,93ÄÈ8-(ÄÈCtlÄ
- XA7>Ì4A7)ÈXLLÈe,+eÈÑ%$y Ä
- X A7>ÑFÔWU+eL(,5Ã+OÈÉp9+eÈ
- mGÿ0Z6+e5Ô
- M0Ì+eÈÈ4ÂÔ
- B=1 A7nX%$ÈÈÈA71Ä

ﺍﻟ م ر

ﺍﻟ ر

لج لج لج

2 20ˆ n ˆ ≤ 1.5mA

م 30mA 30mA لج ˆ <10

لج /2/ ˆ =30/2/1.5=10 30mA لج ˆ 10ˆ

20ˆ 2 30mA لج لج 10ˆ

ﺍﻟﻤ ˋ n لج /2> م

لج 30mA لج

15mA سر 15mA لج ∩ قد

لج

30mA ≤ 30mA لج

م

2.2.1

RG-SF2900-S 3+G 3+G Ô ÄX j1 ã × ú M¯ +Ç ã 10cm ,0 L ÈD, ¶ J È F>¦ ÄF
Ã/ 564 ÷ Ã 6@4 F ¤ 6 n 5 Ž G 4 È Ã NÔ L ¨ Ä Þ 3 Z 8 È ¶ eŽ
j ¶ 5 (Ä e

2.2.2

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

- 4 ¾ ( ) È ( ) È CFP @55H É 5H=8 Ÿ J 8 ¾ ? e× 9 Ç +O É W7-F Ã Ž & <1y
) ß Ä
- 4 ¾ ( ) È ÷ ,) È 5H(wJ 5 Y È Ç × +OM ¾ e Ã 7 ; ´+eDÄ
-) Ÿ È (Ã Ã Ã 7 ,´ W7-WWL } ÈJ,8 Ã 7 Ç *) à ¼ g,´ ¶ e Ä

RG-SF2900-S 3+G Ô Ã 7)) ¶ Ÿ È ~ Ö

) ß $ Ö	) ß -() È Ö
-5ºC-55ºC	10%-90% Å ¸

م

سر u في 1.5m 0.4m

2.2.3

& 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 2Â

&	}..	[Gÿ
& 2Â $ 0.5- mÅ	2Â / m³	0 Ã XRrfaV Ã x gr'.a x gr Ñ n-uS

2.2.4

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$ Ä+X9ÊÄ PE Å(94ï+e$ È7%#eD7-9x,´ %L¹+e5Ä
- jê Ä4ï+e4 ÑME¼ ÊÁ V+eê 7Ä
- ê +e.ñ,ê e56G+Xm+e56Ä
- ê e56 XÔ4ê gFC4ÈbM¹+e× +O,E+eÃ+eê Aî7' Ä

2.2.5

8Ÿ -,´ Õ `3+5 _ RG-SF2900-S 3+GÔ ñ 0cÊ F>|*.pÈbM¹+ê Ä9Aî7
ê 8,ÊÔ ðñ,ê uä Ê

غي	غي

¯+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	∩˜	غي	u غي
غي	غي		
سر			
غي	م	u	
غي	0.75	18AWG	
3		0.75	18AWG

Aî í,´M'+e Ô3+5 _ 0 Z) 0û,´3+5 È+aF¯M'J¸ Ã; , ƒ ¼ > Õ `3+5 -(F ,´ Õ d4ô @ ÄB 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+GÔM¹+‰ 1 ZÊÕ . 2-1.

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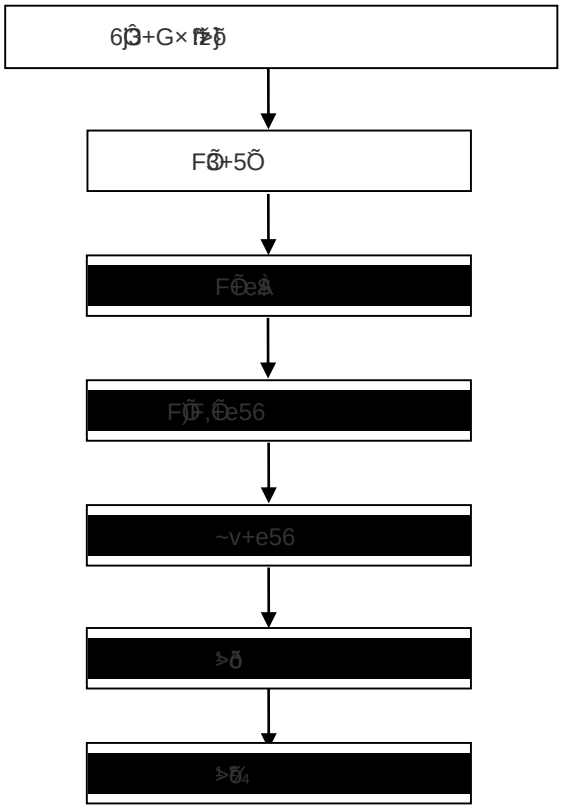
3

📖 سر “ ﻫ ”

📖

3.1



3.2

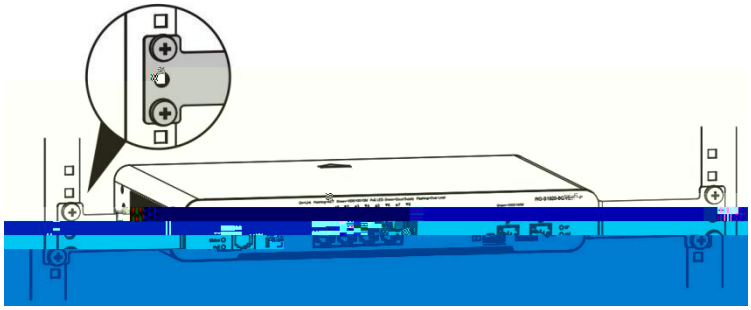
X ¹>õ }B'.žAÔ ; &é Ö

- ¹>õ7,)Ï_ÈE¹ Ä
- ¹>õ7,)Ï_ÈE¹ÄÄ
- ¹>õ_V35ž e%Cã+eÄ
- ¹>õ_V35ž(55G)¼Ä

3.3 RG-SF2900-S

¹>õ & ÈB'# ? ; &é Ö

- [illegible]
- [illegible]
- U/[illegible] RG-SF2900-S 3+G [illegible]
- [illegible] 10

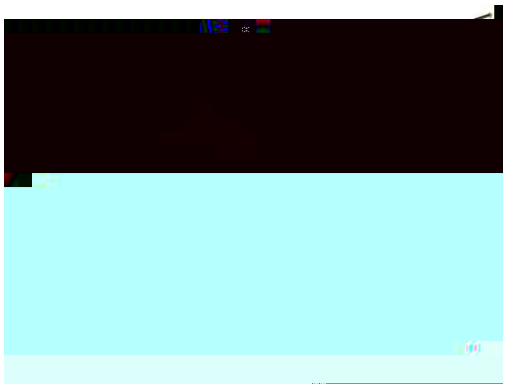


3.3.2

RG-SF2900 ÛLtF126c1 2 Q ÈE0Ö

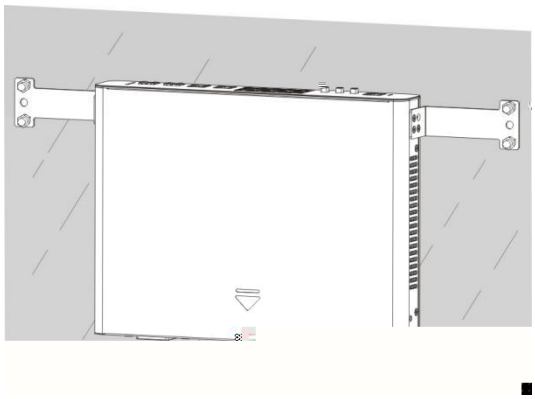
1\0Ö=ÄÄ26cG5>ÈÈ26c<j26ÈÂ26cÄce 90 Ô1>Ô 3-4 p/jÄ

. 3-4 A7 26c>ÕÛ



1\ÈX7 6e6jÔXÈ 3-5 p/jÄ

. 3-5 A7 26c>ÕÛ¼



ÄÿG+X>ÿ[illegible]2>ÿA7[illegible]DF=C[illegible]MÄ

3.3.3

¸ J õ å ; È+X g ¦ = § 7 19 9(7[illegible]+X,[illegible]6[illegible]5[illegible]E

E1[illegible]

1\0[illegible]5>[illegible] 4 ZTÿ W7[illegible]dX[illegible]M,'@)[illegible] 3-6 p/jÄ

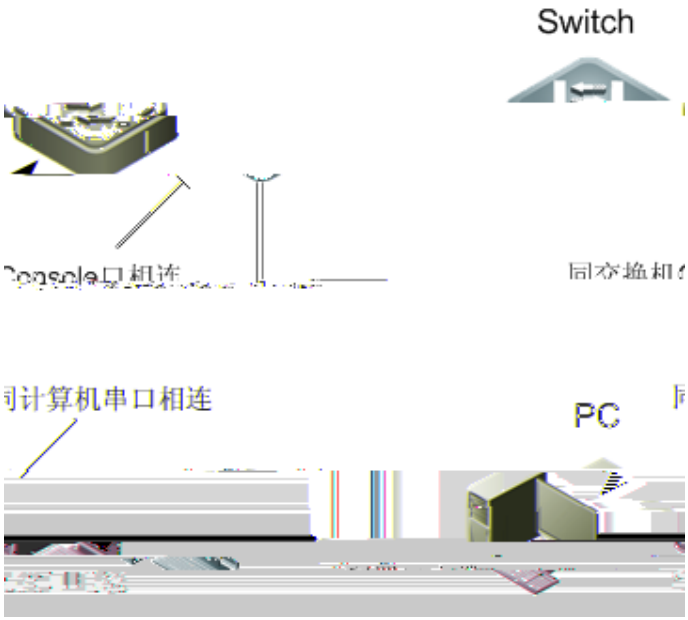
. 3-6 M[illegible]

4

4.1

PC FJE-5ž-e56>Ĵ Console -(FÈ . 4-1 p/jÖ

. 4-1 G5ž?



- 6G5ž-e56,´ DB-9 ,ĵ>G5ž PC ,bÄ
- 6G5ž-e56,´ RJ-45 01FÛ× fÄ ConsoleÅ

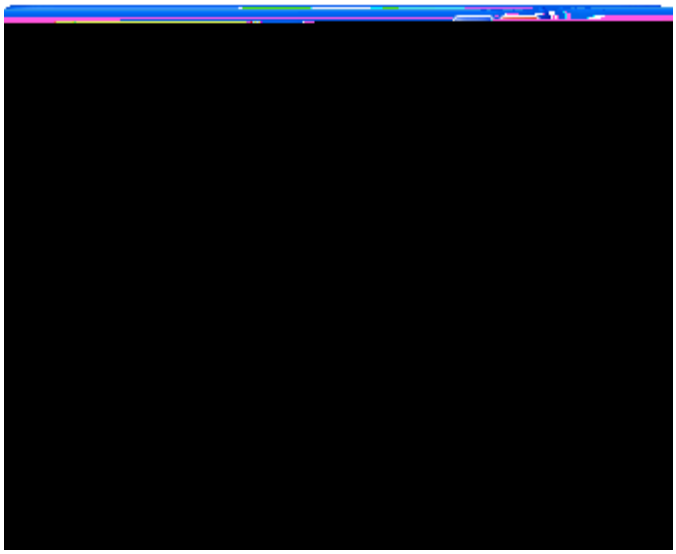
- 1\0ĵ PCÈ PC F>4ı/-O0Ä Windows3.1 ,´ TerminalÈ Windows 95/98/NT/2000/XP ,Cµ 4× 4ÄÅ
- 1\Ö5 4ı(ÈÈ)j 9600È 8È PÈ 1È× fjÄ

1) &0û -0¿ -Lt& -FJAß -Cµ 4× 4È Cµ 4× 4ı0È+5i*² . 4-2 p/j,´+MÄ

. 4-2

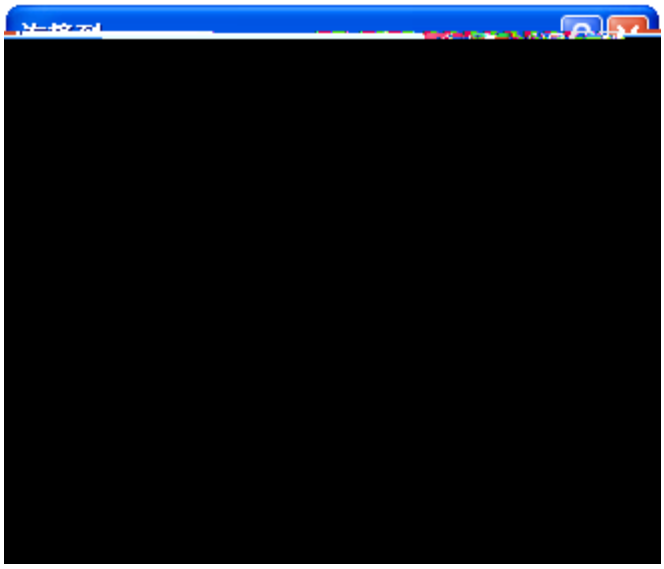
2) [illegible]#5i*² . 4-3 p/j,´+MÄ

. 4-3



3) XFÕ3$+MÄ[illegible]0 È. <.È >9JÈ+5i*² . 4-4 p/j,´+M.È[illegible]X0?
F9FÕX,bÄ

. 4-4



4) bF9%4È. <.Ê >9JÈ+5i*² . 4-5 p/j,FÕA5ž|MÈ5ž©)j 9600È
8wPÇÇÈ 1È ¥ fjÄ

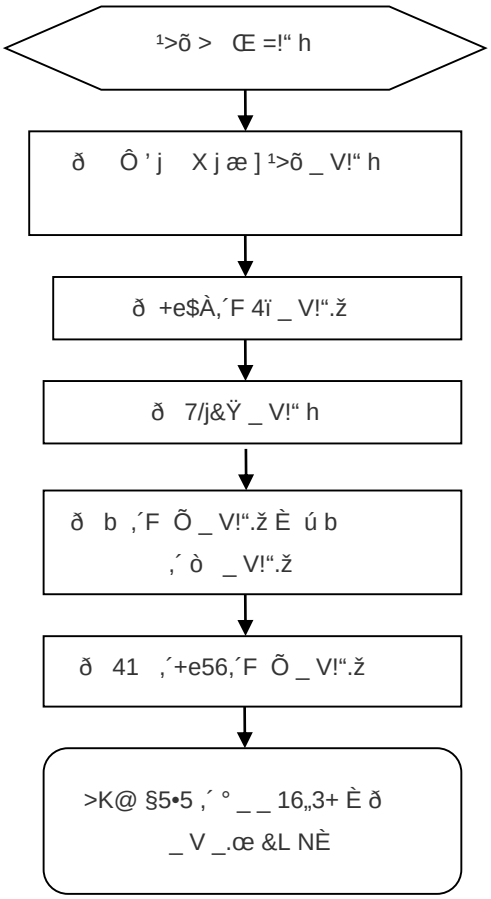
. 4-5

5) bA5ž©>È. <.Ê >9JÈ+5F² . 4-6 p/j,Cµ4×4ž+|MÄ

. 4-6

5

5.1



5.2

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

y4ÊFJ	ÕF11FÕ8×	B3ÿ4ÔF1Õ1×
	Ây Q×iG}×	ÿ>/2ý ¢
	y4Ô×1V8Ê×	ÿ1V8Ê,ý4Ô
	y4Ôÿ Q/j,ÁÊÔ	i+XÕV8Ê,ý4Ô

A

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

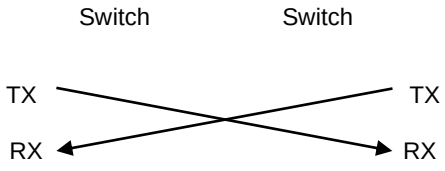
1000BASE-T/100BASE-TX/10BASE-T 19/FO)8F2A1EXF9/FO);8Ø MDI/MDIX Crossover
,7-Ä

. A-3 100BASE-TX/10BASE-T 5 4ÕÊ

-$4ï		Ê4ï	
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

\ 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

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

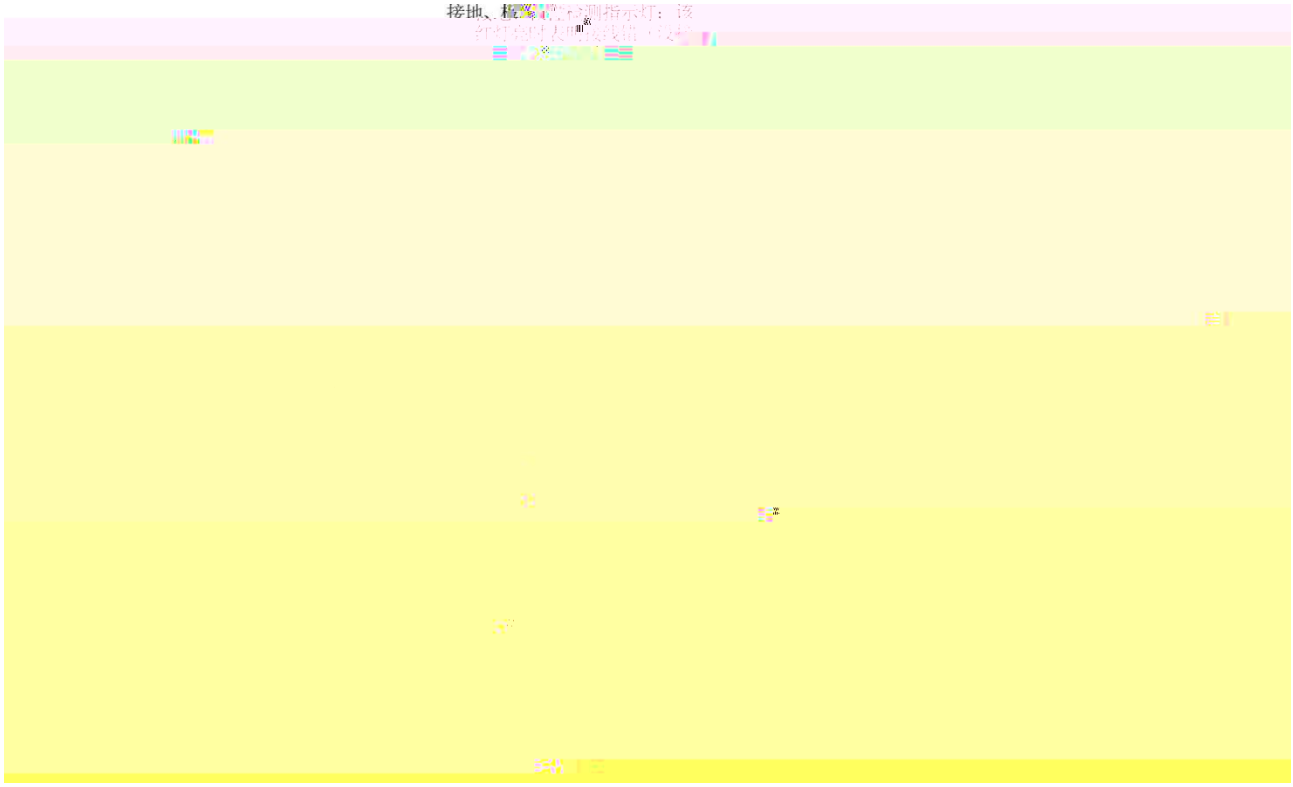
SFP			(um)	
Mini-GBIC-SX	LC		62.5/125	275m
			50/125	550m
Mini-GBIC-LX	LC		9/125	10km
GE-eSFP-SX-MM850	LC		62.5/125	275m
			50/125	550m
GE-eSFP-LX-SM1310	LC		9/125	10km

Mini-GBIC-GT	RJ45 54ï

C

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 +eÀM¯j?



Ĺu>ǰ ,Ñ©Ö

- +eÀM¯+XÈÊñ PE 1Õ Ä
- 6ÕeÀF+eÀMÄbMÕÅ>ÈeÀM¯9>F>|5/Ê<4ÈA–
  ÀÕÊbMÏ7-Ä
-)¾eÀM*)ã4ÈÀÈ,Ca,Gÿ*6ÈÈ6*ÅÑÃ4ÕÃ
  ÈÊX7+X>Ê¿ÿeÀM¯+eÀ4,ÿWÈÀÈÅ
  +eÀM¯ PE 1ÑÕÈ¯MÈ$OxÈeÀMÃ4ÕÃ0ÿ+eÀM'
  ¤ ÕWiEÈ4ÈÀÈ$+eÀM¯ PE 1.ÑÕ

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>

>P Ô

1) M7 Cd,0M 7 Cd2 5 F M ˜ F M7 Cd,0M 5 F M ˜
2 dX 2 d 5 G

2) D/ 5 F M ˜ 4 (*3WX

3) +X7+X> F M 4 V> 8Ÿ ×

4) 5 F M B$ 5 F M ˜+X5 e56 4 e56Õ IN 1
,E e56Õ OUT 1 /j V h×

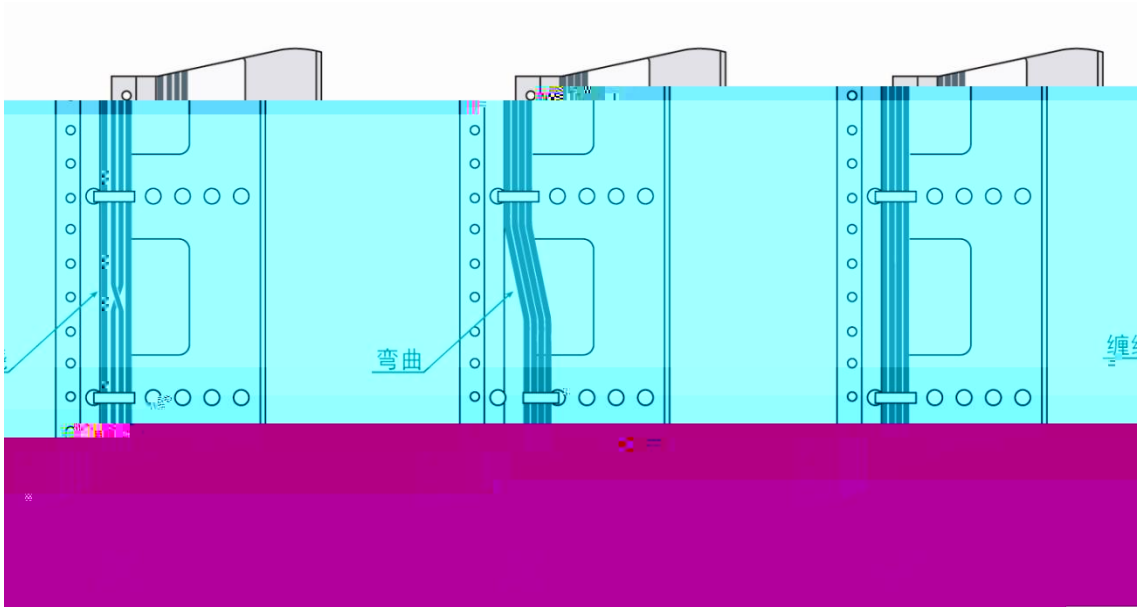
5) +XlU 6+e565~ U

. C-2 5 F M ˜ ?

ج	10/100M	RJ-45	ج		
ج	˜	ج	U	ج	
ج	س				

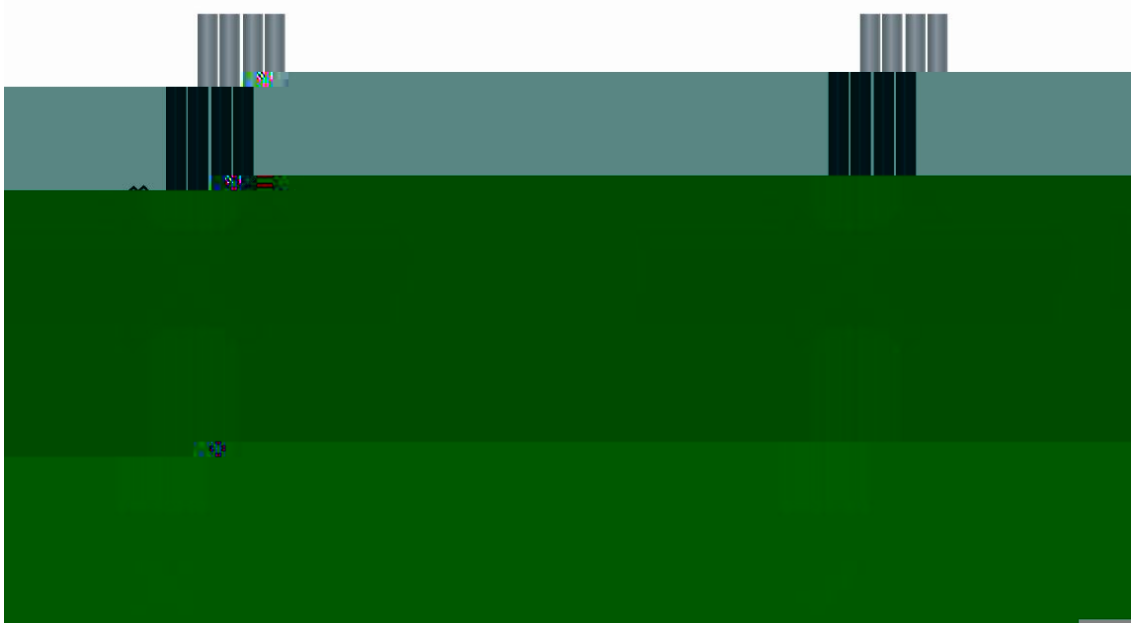
- Lu> F M ˜ W7- G
- 5 F M ˜ E “IN” ˘ “OUT” ´ ο Â
- 5 F M ˜ 8 M ˜ 4 G >È
  B'+X7+X> ˜ Â
- 5 F M ˜ e56*g5 0 Z M 5 p9,´+e56*g5 5 ¯
  M È b X Ä

D



- =<2× ,´+e56Ä ÀÃÃ1yÅjÄ0C4Ã~ÈÇX0CÄ/E¯Ò÷
  Ô4ÄC4ÈeÈe56>4ïLÞÄ¾ 30mmÄ
- jÈ,546ÔÄ-ÿ%Ì,@Ä
- +e560Cº ,HÄy%,ÃÇu6B6,>ÌMÈ>055H>Äe
- 5~+e56Ä9F2Ø4ÈÇXTiFTi;4FÕ+X¾4Ä
- +X46+e565~>ÃJ%G6ÈÇ%UÈÇ%F7JÄ D-2 p/jÄ

. D-2 +e56v~/j3Å¼



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

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

- ++.e56C4F65v~=
-)

RG-