RG-RSR20-X-52 Ò

F^ x Œ

gē V1.21

é« 2023-11-08

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- iHà https://www.ruijie.com.cn
- iHàÆE4éy

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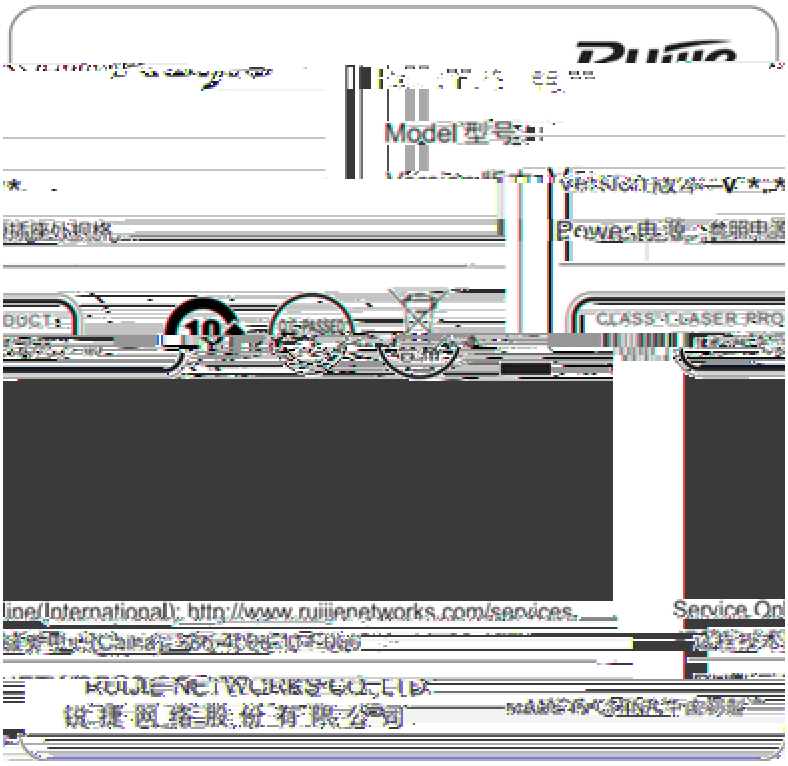


K(þÖ

Cþ¯

„ ,, ãÖ Ë

þ_1 4 Z HSIC QFOJÑ ¼ 1 Z DHSIC +eÅ ÈF 48 ZšvÐ 4 Z 9rZ5• Ä 3 Z 1000M/100M/10M +e ,1 Z 1000M/100M SFP yÅ ×Ë 1 Z FUNC

¤ ¡ 11 ÍÐ ÒÒ ÕzÁ ÖW õz - ÄÙ e~Í"vÑY..¿ ðRÖ A"š $Ù e} ÂËôÜÜ Dx-none..

Â

GÖ	1Ö 48 Z 10M/100M/1000M ZÔ Ä GE1/0~GE1/47 1Å 2Ö 48 ZZ(â e7/jÿ 3Ö 3 Z 10/100/1000M 9rZ5+e (GE0/0~GE0/2 1) 4Ö 3 Z9rZ+e7/jÿ 5Ö jÖ FAN (â e7/jÿ USB Aî7 (â e7/jÿ PWR_BAK 7+X+eÈ e7/jÿ PWR Eè e7/jÿ SYS .8e+5F [â e7/jÿ	6Ö FUNC JÏ7-9K^ 7Ö USB Aî7 - 8Ö 1 Z SFP y7/jÿ 9Ö 1 Z SFP y 10Ö Console/AUX =+X

Âce

7/jÿ	hÿ
SYS	.85F[â e7/jÿ 85zFeÈ 5/8Ö5Fÿ 5/8L85XØ 4Ö5ÿ
PWR	eÈ e7/jÿ 5/ÿ5Ëh ÿ5ÑÈ×
PWR_BAK	7×eÈ e7/jÿ 5/ÿTZTzÈ× ÿTZ FTzÈ×
USB ÿ	USB 1(â e7/jÿ Ö U -F USB Aî7× 5/8Ö U -F USB Aî7MÈÈÔ 5/8LÖ USB ÔÔ 4Ö U -F USB Aî7Zh

FAN ẍ	Nþ(ãe7/jẌ 5/8hÐþhFþ× 4ÒhÖ Nþ(EE¢h ×
SFP LINK/ACT 7/jẍ	SFP LINK/ACT 7/jẍ : ẌÕl Link up× Tohẍ*0û 100M Link up× TolẌ 100M Link up ,D9ÞEÃ 5/8¢hẌ*0û 1000 Link up× 5/8lẌ 1000M Link up

RSR20-X-52 ëZ Console/AUX =+XÖ

„ Console/AUX Ö

77	77ò
Õö	EIA/TIA-RS232
õ	RJ45

A71_1 MDI/MDI-X 8F2AX-FJ54F64]E1 MDI/MID-XÄ

Ä3Ò97-J8f4T56pLt:FBÅ

LtÖ

?Ò

1000BASE-T 1+X 4)4FÿPEÃ00ep9,´ 4)4FÕÄ 1000BASE-T 1p+X,`54ïFÕ p/jÖ

1000BASE-T)54ï/j?

-$4ï		Ê4ï	
A7 A	A7 B	A7 A	A7 B
1 MDIA +	1 MDIB +	1 MDIA +	1 MDIA +
2 MDIA -	2 MDIB -	2 MDIA -	2 MDIA -
3 MDIB +	3 MDIA+	3 MDIB +	3 MDIB +
6 MDIB -	6 MDIA -	6 MDIB -	6 MDIB -
4 MDIC +	4 MDID+	4 MDIC +	4 MDIC +
5 MDIC -	5 MDID-	5 MDIC -	5 MDIC -
[redacted]	IC+	7 MDID +	7 MDID +
8 MDID -	8 MDIC-	8 MDID -	8 MDID -

100BASE-TX/10BASE-T E7JÊ

Pin	MDI Q?	MDI-X Q?
1	Output Transmit Data+	

	62.5/125um J Qy4Q0WPEÐ/ë 550m× 50/125um J Qy4Q0WPEÐ/ë 550m× 9/125um .Qy4Q0WPEÐ/ë 10Km× 1000BASE-LHÆ 1310nmÈ 9/125um .Qy4Q0WPEÐ/ë 40Km× 1000BASE-ZXÆ 1550nmÈ 9/125um .Qy4Q0WPEÐ/ë 50Km ¼ 80Km T/ý FE-SFP-LX-MM1310: Æ 1310nmÈ 50/125um J Qy4Q0WPEÐ/ë 2km× FE-SFP-LH15-SM1310: Æ 1310nmÈ 9/125um .Qy4Q0WPEÐ/ë j 15km;

1.2.4 USB L

Ce

USB (

FUNC

HSIC-2HS ŽW

HS _Ie,95YĚŽW;Ö

ÀÞ	_1 V.35 ÀÞè5568ØŤþ
FO)·	¥£1 9600-8192000 bps
7/jŽ	3 Z 2 Z1 Link/ACT (áe LED 7/jŽ (*0K.D*0ĒÕ:r,ÁÞ UP ĚŽ LŽ 1 Z4ï RDY (áe LED 7/jŽŽ
Õ	DB26
)Ŗ7	)ŖÖ 0 45×)Ŗ 5Á 95Á)ŖÖ ±40 70Ä
EMC	EMIÖ GB/T 9254.1-2021 ClassA
	EMSÖ GB/T 17618-2015

Ž

F9G5;456Ö

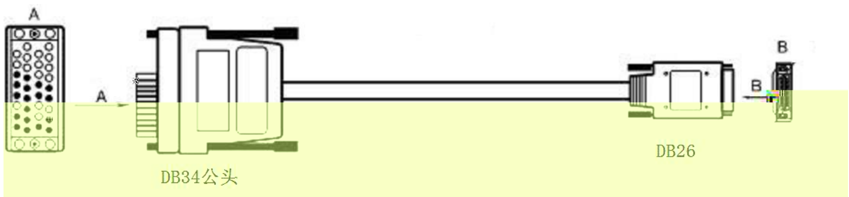
- V.35DTE 456
- V.35DCE 456
- V.35DTE-V.35DCE 456

F/456,/j?Mþ/jÖ

V.35DTE

B45601_ DB34 ,áè1_ DB26 áe Ä

V.35DTE 456



V.35DCE

B45601_ DB34 ,ŷè1_ DB26 áe Ä

V.35DTE 456

OFL	*9JÞ	*9JÈ9	3s :È	RDY ÄÜÈú9JÞQ
		8@EÈ	RDY ÈXg-ÕQÄ	

2	4	RX Tip
4	1	TX Tip

1.3.3 HSIC-4G-LTE /L)

HSIC ö HSIC-4G-LTE

Ø Ce

HSIC-4G-LTE Fô

M7/jÄ$

7/jÄ	hFÞ
RDY	5/Ä4ï+eMFÞ@ 5/Ä4ï+eMFaCU
WWAN	7j55(1È5/8KÞ@È5/8LÞ9ÞaCU
4G	4G JÑ/jÄÞ 4G =Ñ/8hÞ 4G =Ñx
3G	3G JÑ/jÄÞ 3G =Ñ/8hÞ 3G =Ñx
RSSI	5/8KÞ5È5/8L Ñ-ÞaF65'

HSIC-4G-LTE =_1ÈÑ OFL 9JÄ04È M0ÞÝeÞ7-4FA7k
jÄ

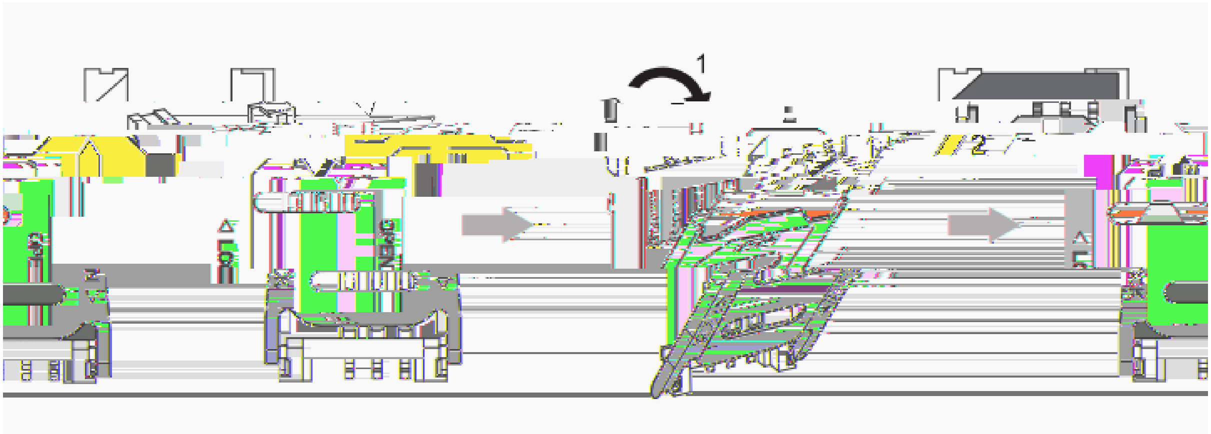
HSIC-4G-LTE Ìi

ÑW

1	1 Z 4G
Ø×	TZ SMA-J ÈXFÑ04ï×
4Ì56	4G Y4ï
_1FO)·	3 QÞÈ WF:Uv,Ĝ 4G/3G/2G ŵ+XÄ
ÑÖ	ÑÖ 0 45 × ÑÖ ±40 - 70 Ä
Ö	ÑÖ 5Á 95Á
EMC	EMIÖ GB/T 9254.1-2021 ClassA
	EMSÖ GB/T 17618-2015

SIM Ĝ

SIM '-jØÈ&HŽwA OPEN 1ÝÄÐ-ÐŽwÈHŽ
(wAFÈ@ 60 (ä> SIM ÐùÀÈHŽwA LOCK ÁÐ
>ÐŽw7Aö SIM K1(Ä7-WÐÄ SIM ÊÔp/jÄ



Č

1 Z HSIC-4G-LTE QÞM0ÞB} 2 Y4È4M0)GÈ 6.2 8² AÒÇÄ

+XgM0ÞF5Ý4ÞF5Ý4Õ ANT0È ANT1 !ÝÕoWÐÄ

a ÑÄêâk(77F≥5¤4ÞÐ6;A≥5¤4ÕCe7+k>

1.3.4 HSIC-5G-NR /L)

HSIC Ö HSIC-5G-NR

Ø Ce

HSIC-5G-NR FØ

M7/jÈ$

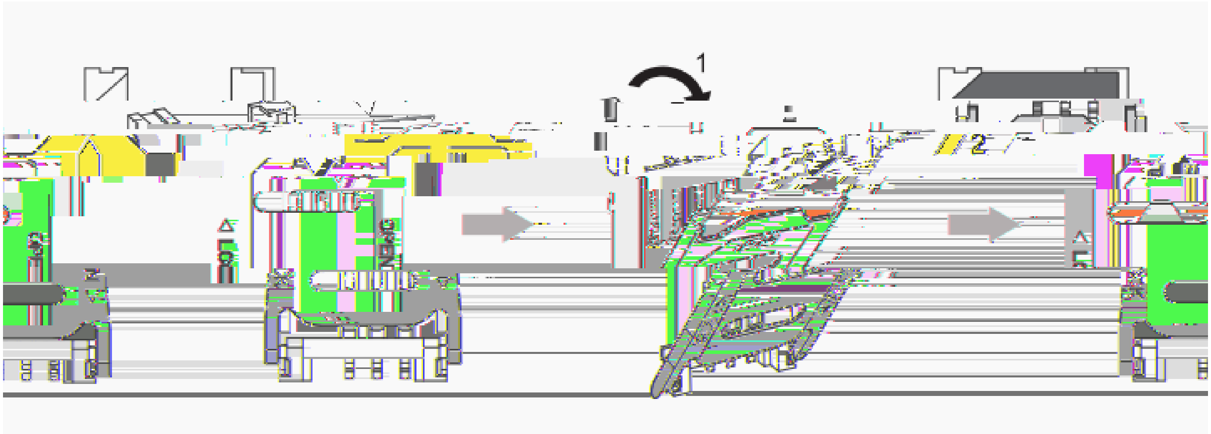
7/jÈ	ћFÞ

RDY	5/ÿ4ï+eMÿ@	,ÿ4ï+eMÿaCU		
RSSI	5/8K¯ÿÈ/8Lÿ-ÿa F65'			
5G	5G JÑ /jÿ	5G =Ñ/8hÿ	5G '@Ë/8Lÿ	5G K.D:9ž
	f			
4G	4G JÑ/jÿ	4G =Ñ/8hÿ	4G '@Ë/8Lÿ	5G K.D:9ž
	f			
3G	3G JÑ/jÿ	3G =Ñ/8hÿ	3G '@Ë/8Lÿ	5G K.D:9ž
	f			

4ÏZ OFL *9JÄ

7#	B$	ÿ
		K ¯9 3S >È1 y µ READY ÿ&F 65 Aî7 ƒ
		%TPL4300U]TJETQ EMC /P /MCID 4677 BDC 290.09 516
OFL	*9JÞ	

SIM '-jØ È&HŽwA OPEN 1ÝeA ÐŽwE&HŽ
(wAFÈ@ 60 (ä> SIM ÐùA ÈHŽwA LOCK A
>ŽwŽw7Aö SIM K1(Ä7-WË ØÄ SIM ÐÔp/jÄ



Ž

1 Z HSIC-5G-NR QM0} 4 i Y4Y4M0)GE 6.2 8² AÒÄ

Y4{$D/EFJ× +O-(¾ 4 iY4jv.n,ÈAY4{$D/W¾ 16CMÈW7-Ä

+XgM0F5Y4Y4F5Y4Õ ANT0È ANT1È ANT2È ANT3 Õ ¦ EeWÈ @Ä

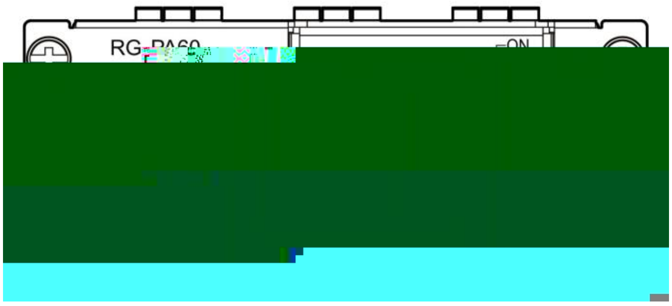
a NAêák(773F5¤46;A5¤4Ce7k>

1.4 Ô”

1.3.1 RG-PA60 Ô

Ø O

RG-PA60 +eÀQF×



Ce

7/ÿ$	(Ce
M7/ÿ RDY	5/8Ö ÿ eÀÃ × Ö eÀÃ65eÀÃ

Pa 115.6 reWBT/F9 9 T15.6 reWBT408801 0 0 1 109.7 496.[Tm0]TETQEMC 1P MCID 108>BDC 170.42 4

eÀ	RG-PA60
ÊÑÊ93$	100-240V~È 50-60Hz
ÊÑ93$	90~264V~È 50-60Hz
EÑW)	60W
eÀ	1
eÀ	1 7 Q
EÔ	1
EÔ	1
eÀï	10A eÀï
eÀ (W*H*D)	98.2mm(í)*41mm(Q)*176

„ _1 TELNETÃ TELNET

„ _1 DHCP ServerÃ DHCP ClientÃ DHCP RelayÃ TFTP 1y

„ _17-È VRRP AÐQMW

„ _1 PPPOE

„ _1

„ _1 AAA AĹAÔñ È1 RADIUS

„ PPP Aĥŝ¶ PAP ¼

2

)ßÈ× +OM%eþ̈D+a˜,ʈG+eDÄ̈XÖQJÐO55HÉ61FE0;D+a˜MWWWL}-Ð
GŦX/Ä

jo,$ΥÐ40Σ× î93ßÀ

)ßþ=Ð%+gþ̌D× ĺDfͅ@	1.5m ÂD% +gž	0.4m :ĦvÍþ>
CB,ŕ/$̂Á/§%73C68*%͢ĺ5pü		

2.2.2 MÓ-

8)DŦ9þ̈mXDŦPM%L;ÈÃ̈A7/È<
DČFP@Õ̂ÃÊF/Ý%L1Ä

K@$+GD+a̋joμN[G-Ü2ÂD

0W-$ P	0.5	1	3	5
0WÞ (ÿ22þ[NÇ 2Â)	1.4×10^{7}	7×10^{5}	2.4×10^{5}	1.3×10^{5}

L&FD+a̋jo0ÞD[-G.F(9Ul,ÈDJÐOHŽ7+aG&1
FE0;ÈĴμ SO_2Ã H_2SÃ NO_2Ã NH_3Ã Cl_2 1y9Ð/ʃ$0ÈD

Ḋƒ	ŵÄ mg/m³Å	0WÄ mg/m³Å
SO_2	0.2	1.5
H_2S	0	0.03
NO_2	0.04	0.15
NH_3	0.05	0.15
Cl_2	0.01	0.3

2.2.3 TÔ-

DXAÂÑDÈ%46EMþ%DŦ.dÈKÕ5]%2
8;ŢM' Ö

„ ÐQEÃe4M+e1yF+|+ej)ßÀ

„ ĵß μ)ß ³ ` Ua Ì×AV> V

ŧ Æ

9 Ž ,L*CĔý 18ŞM6/AêFᵽ@+kJCL*ᵽ> 24E,ᵽAê%ᵽ

2.2.8 ÓG´

AêDᵽ-ÕXG-M0ᵽ

„ .ÀÔ+a,˜ᵽJNᵽ+%ᵽL$ᵽ+aj1ᵽÄ

„ .ÀjÔᵽD0ᵽ8;ᵽJNᵽ+5Ä

„ .ÀjÔᵽ(*È-O_Áᵽ+aᵽt,&GᵽÄ

„ .ÀjÔᵽ8ᵽ

2.3 GVᵽÔ

ᵽ ᵽᵽᵽÖ

„ ᵽ

„ FÕᵽ56

„ -(ᵽA7

ᵽÖ

„ ᵽM0

„ LbM%e7…

FÕ565Ö

„ +eᵽï

„ Gᵽ5ï

„ Z54ï

„ QÕᵽ56

KF- RSR20-X-52 D%+gᵽLz+kᵽ54ᵽ54ᵽÂW4ᵽM62GᵽCc>

-(ᵽA75Ö

„ HUB FᵽÔ

„ CSU/DSU Fᵽ DCE A7

„ Gᵽ54ᵽ_4ᵽÈ0 ᵽCᵽ× 4ᵽ,´ PC j

„ D+a˜Q‡

„ +eᵽ

3 è–

3.1 èW

FX6 F65B B 9 F D

3.2 ÒÕ

Ð¾ÎŽÊÈÊ¾ÕŽÞÓM0Ð¾ÎŽÊÈÊÕž
089ĵT/ÕÕ

„ ĵ

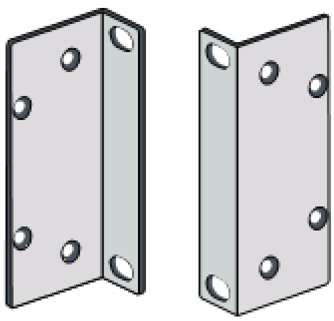
„ ÕŒ

3.2.1 GÒÕ

ÕÕ RSR 3+GD+a˜_9'— 19 9(7ŋĵ(FĵA^ÕÕXD+aĽĵ.tV,*Êt&
FĵÄ

RSR20-X-52 ∓XLĵĵ.tV,ŧ!=a*Êt&-p/j6kjÕj:ÈQÖ%CÐ%ÕÄÞ 1U ,´
%ÕÅ

26c



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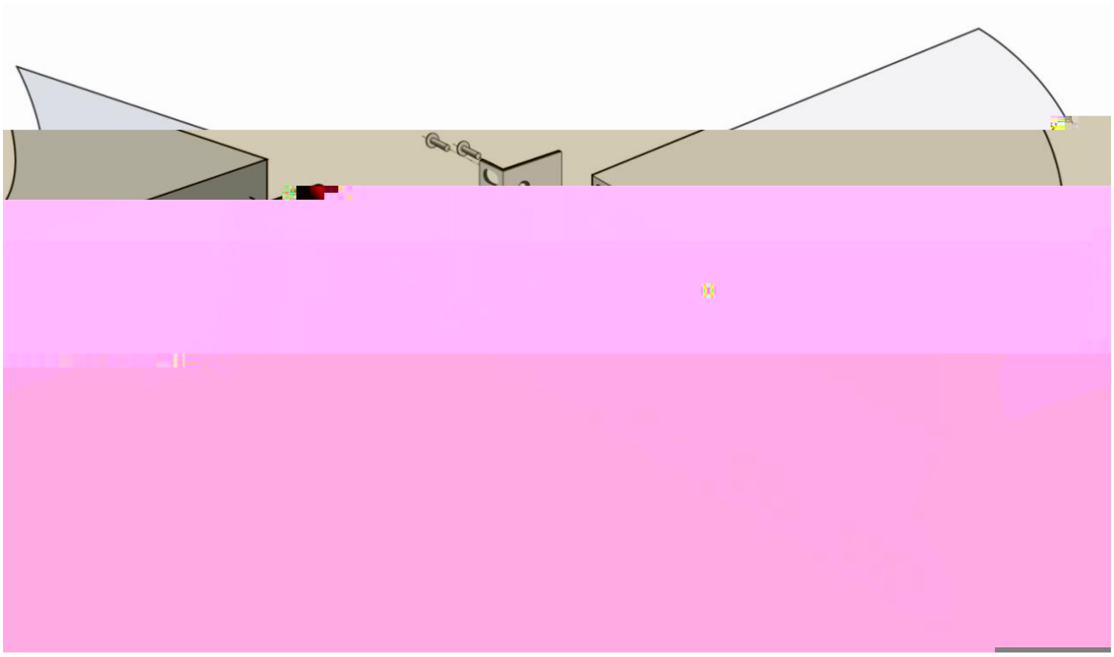
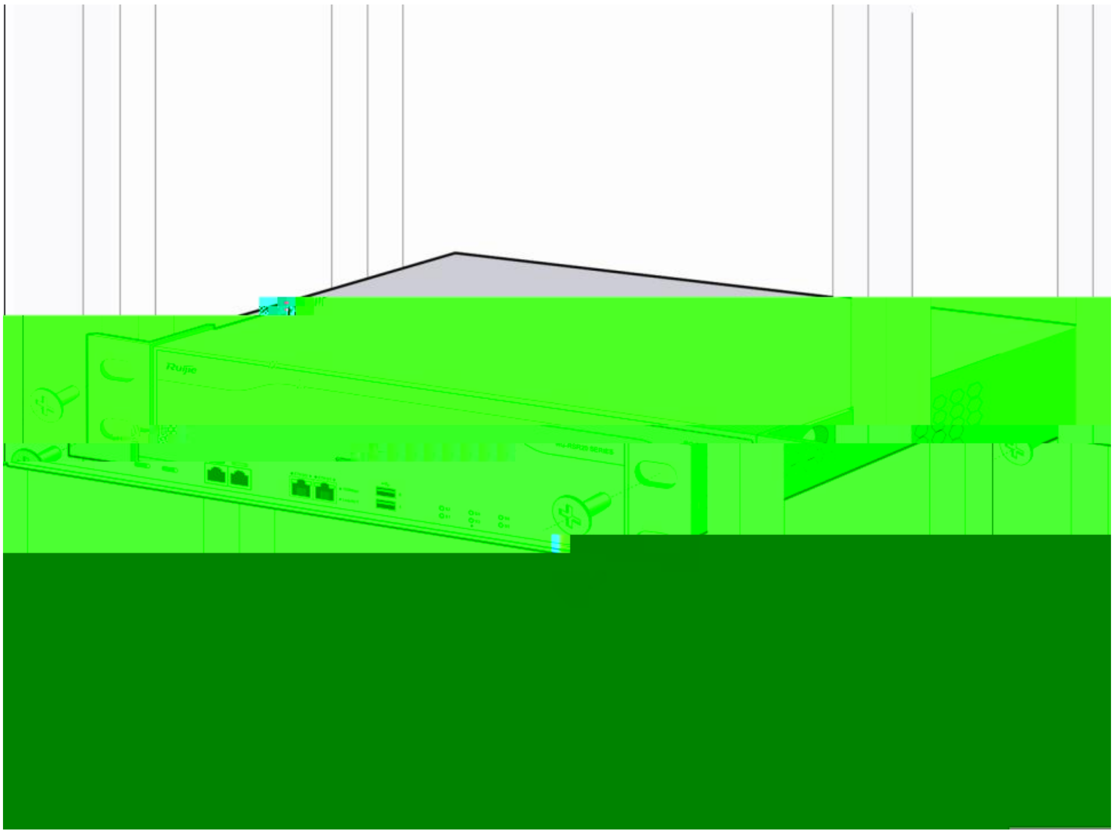




7ĈĒ3ĵĔ'

3.2.2 GŞĚ

XĹĶĵ 19 9(7ĵĳ_6D+añ5Xĵĵĳ
1ĵĚ0ĵN©Ö

„ AĊĒcW8Ŏ

„ ¯+XLjV,ĔĚ(2/ĵ@¦_+%ĳ8BX,ĵ(B5PZĵvĉĜà

19ö QAD+aGZE̥QD+akjM3W@jÄ

1ĐW Q‡*ÊăÄ

1ĐýPÛPĐ9,JÑQÄ

a /Ä7P× WE̥ÿAcNĐ%+gA+k>

a /Äe7P× WM6/D%+gžA+kP× WĐÃD%+g@+k>

a 1bÂ1bBB-EuÑ%+gP× W•ÑEF=N³ĐW/ĐB-C@
ÊB0D%+gP× WėĐ%+gP× WÛD%+gǎM˜ @,P× 3/6EÏN
/UĐ5Ð%73P28* W▸.

a HSIC-5G-NR ?A+kL6; FPEýCLI ³ **remove Ak 0 DM61• » CEý** 5s DÃ^ 5s 4ǎõ–
Aä¸ 5s DH@%C>

3.5.2 ŷÈĐ–

1ö6ĐMMĐ5Ä

1M0ĐQ‡Ûe56Ä

19ĐX¢M0JÑQ‡× ,3W*=ăÄ

1ĐD+aJÑQ‡1=ĐMÕ QAFĐQ‡a/D+akjÄ

1ĐýPÛPđÜp9M0ö ;JÑQjÄ

a Đ%+gP× W‡ÊÄÑ7E

a /Ä7P× WE̥PA?ăNĐ%+gA+k>

a /Äe7P× WEP/D%+gA+kÃP>

a D%+gP× WĐDÑ@WB-,2WuhNFAĐ%+g?FPO>

a Đ%+gP× W‡B-DL*,EF76Đ/ĐhEĐWĐÿAc+gÄĐ
8*Ä

3.5.3 ĐÈ– hmÕ

ĐĐĐKB9'— Đ

„ ăQÊe56ÈYe56_VF9GÄ

„ 2 QĐ/jEÝQĐE/hÄ

XD+a(©s enable Q?;ĐJÑQ±VÕ5ĐÄE

3.6 G

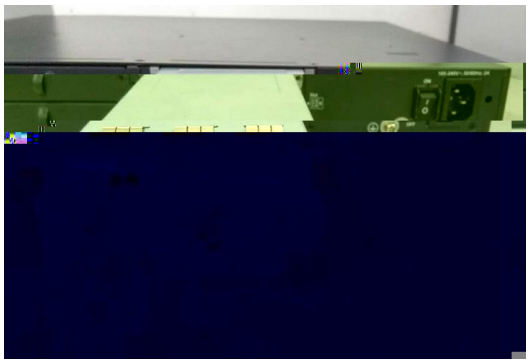
3.6.1 G ±

B 6B 2 4 RG-PA60 +e

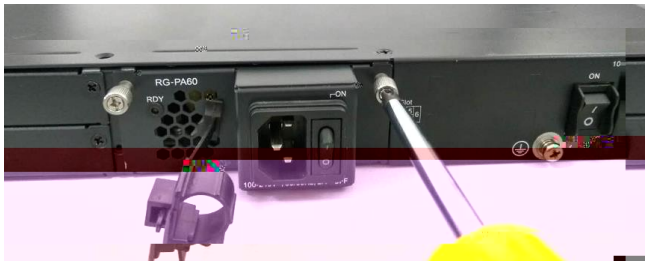
1 D+a j, M) 5 ,.Ö

1 M0 e Q -0 Q Ä ,.Ö

1 D+a e Q+a j M , e Q - , 0 E H) U Ä ,.Ö

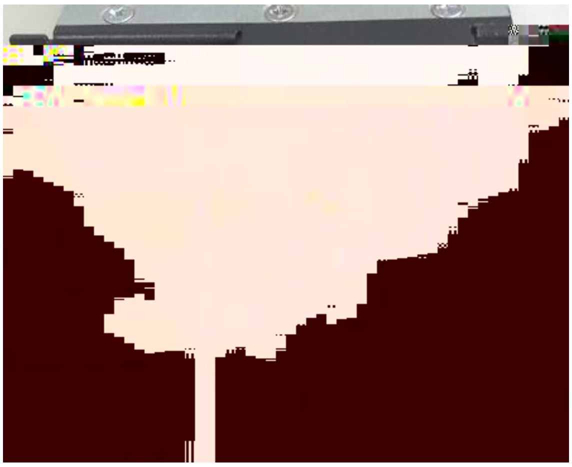


1 D+a e Q A D+a j G D+a e Q D+a j M 3W @ E X M0 û
3WD+a e Q , E Ä ,.Ö

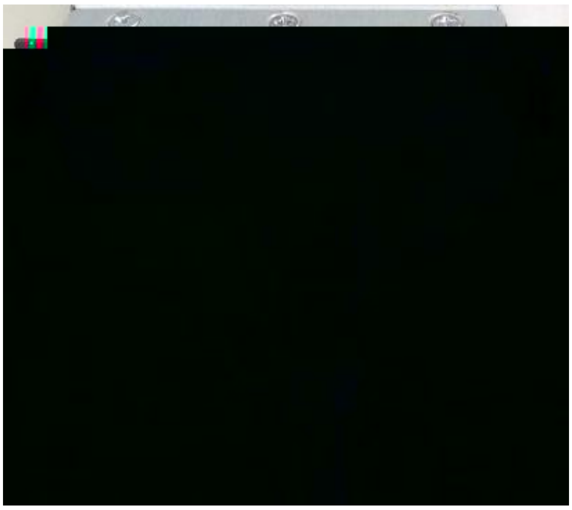


1 P 9 , e Q Ä

a



+eÀÈ+eÀ¼ÈÔ



FJE:‡ 687Aő(wZÈÄ

%6'DPÈkÈV;º	RDY ÈeY©@+k%-A	PWR =/pÈ
+kÈÉLzFJÕ		
+kÈÉG≯		

3.6.4 ÇÕ

B9PÔÖ

1ÙÈ +eÀQ‡ 0£ 2))´ 5ž Ä

1ÈÂÔ +eÀQ‡ 05¾ 2))´

4 nÒ

4.1 nÒ

4.1.1 Ê©

XD810CÉ¶GxFE÷ Console ÿD+aFS5ÿÕÖ

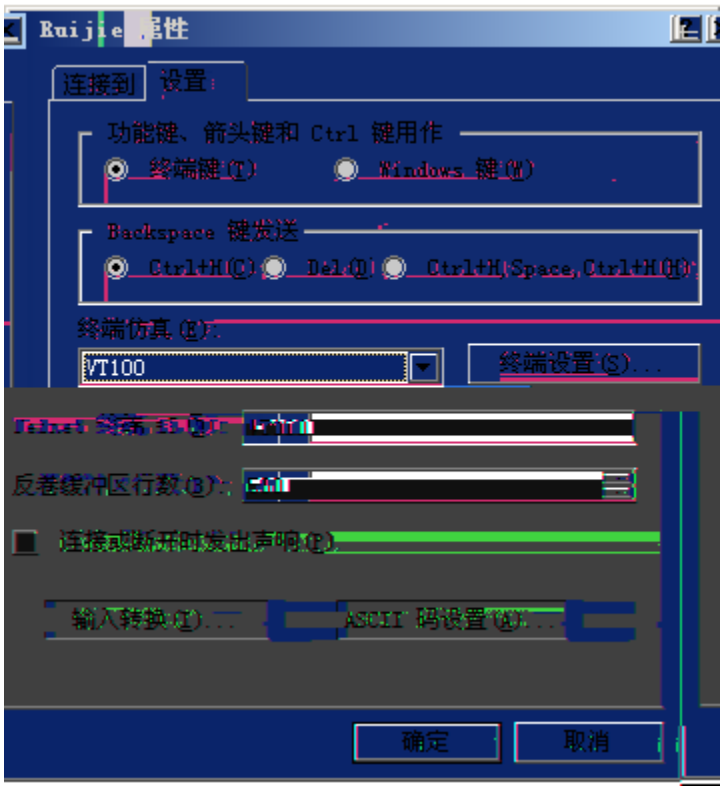
10Ç/p/jÈ01V4ibF65ĵFJE÷ó RS232 456Ð+a˜ Console Ë5E×fM' ÂÕ

FJE÷Console ĵG5ÿß

1Ð5ÿ4i,FJAÄ5ÈÈ+XĵM0Ë4i/-O0;È Windows ÿE5Ë Hyperterm(Cµ4×4i)1yÈCµ4×4ijÈ5ÿE;ÄCµ4×4iE80ÈÈ9Ð+a˜ Console FÕ ,bÈ5FJAÖ 9600 (©)Ã 8 ÿÃ 1 ÿÕPÃÈÐF94i/-O2ĵ VT100È ;.,´ Windows ,Cµ4×4i,Ä5ÈMÄ

*0ÈÕ

F9Ð+a˜ Console FÕĵ



]G5,)8D+aF|+eÄ

4.1.2 Ô-

4.1.2.1 ó

Xe|D6ÈD

+eÀ4FÕ_V!ž

„ Ëe+eÐ+a,?_V08$

„ G5456FÕ_V!Ž5ž XJF41_V40A5¾

a B-D%+gž@+kƒAÚ%+gÑk6©,5ÈUÁ73U,=Ñk+k$E

4.1.2.2 Ô-

„ ƒD+aËe+eÀ£

„ ƒ 0D+a˜eÀ6D+a˜eÀ5¾ ON5ž

4.1.2.3 ôó

DãèBFþ

„ FJNþ+5_Vh

ð+a˜+eäNþEóNè{XD+a˜FJNþtFäOûD,ǿ

„

5 GlmÕ

5.1 pû-c

RSR20-X-52 iĵM:, PWR 7/jŏ+a+eÅV*)àLĭ/jŏh(aB01]´
BŠ)2hÈF¦Ô

„ D+a+eÅ£Vþ

„ D+aËe+eÅ£Vþ

„ D+a+eÅï_VFÕ

„ % TÌ£ÉÈEÏa,ÞFT4/2*@ÅVG}2h,¢ÉTÈE}

a B-CP+k+kÅÕAó=× 2N[Status=/p¥ /POWER=/p¥eCþ-D%6L¶

6

XD 4/ 56

6.1

6.1.1 b

6.1.1.1 V.35 “

D+a4¡E V.35DTE Q?JE÷ V.35DTE 456ÈÕ GV Ee V.35 Modem 1y)1A7×
D+a4¡E V.35DCE Q?JE÷ V.35DCE 456ÈÕE V.35 DTE Q?)1A7A2
+X¾ HSIC-2HS 1y4¡´ V.35 DTE/V.35 DCE QÄ

2R90/(©AXÈ K@§5 FJE÷ V.35DTE-V.35DCE 456M6Ä

F2+XA7	Q?	F56 1	)1A7
HSIC-2HS	V.35 DTE Q?	V.35DTE 456	GV Ee V.35 Modem 1y
	V.35 DCE Q?	V.35DCE 456	E V.35 DTE Q?A7
	6M6Q?	V.35DTE-V.35DCE 456	K@§5 HSIC-2HS NMX-4HSH

6.1.2 E1 /L

E1 4FJE÷ E1 456V Modem FÕ

6.1.2.1 DB9F /L E1/CE1 Modem

1) FJE÷M56

2) FJE456ÕÅ

3) FJE456Õ

F2+XA7	F56 1	F56 2	)1A7	
HSIC-2E1/CE1	M56	/	BNC Õ	* Modem

6.1.3 CONSOLE Lå

Dã /P̃ CONSOLE ø j× f ū8j RJ45 ,× ĒX DB9F F RJ45 45̈6È65∓XEœ ŭ RJ45-DB9]G¥ïP̃Õ PC ,´ DB9M bÄ

F2+XAï	FÕ56 1	FÕ56 2	)1Aï
D+a˜ /Ô j,´ CONSOLE	DB9F F RJ45 45̈6	/	PC ,´ DB9M b

6.2 ļ4

F 45̈6 /EÕÈ Modem 45̈6+a Modem ļ56 /EÕwX K@§5 AÒ]ſ=0 ž p/jÖ

45̈6AÒ]Ÿ

V-16130075-000	2EÕ56È DB9 ĝEœ RJ45 dÈ L=2m	console 4ï
V-03260025-000	CAB-V.35DTE/POS26-34PM/3M	V.35DTE 45̈6
V-03260028-000	CAB-	

¢ A ² Ò– ẽy

¢ B ² GĚ

ÞĚ¼ 19 9(7jÈ4Õ56FJE€4æ-¾54æjo,ĹuÊC4F ;C4ÄþÄ9EÕ4560ÕB*6nXj,ÕÄ7-nXjFGC€ŠÄe4Ä€C4È ǰoĹuÊ{}eÊÕÃbM1ây,5ÅF:C4F;C4Ä

ŝĆé-

„ +e5Ä2ÃJ+e562Å e5623n*Ê´ jÄ+e56F´ 5 =:×)4ĳ_ÈF2« +e56ÊÄ+e56F´ 7 =:Ä

„ FJE+e5623n*ÊžjÄ+e56F´ 7 =:×)4ĳ_ÈF2«e56ÊÄ+e56F´ 10 =:Ä

„ QFO+e56Ä SFP++e561yÅžjÄ+e56F´ 5 =:ÈĳÈF2«e56ÊÄ+e56F´ 10 =:Ä

ŽĆé-

„ y4ÕŠy4Ô´$?¼ 25 =y4ÕÄ

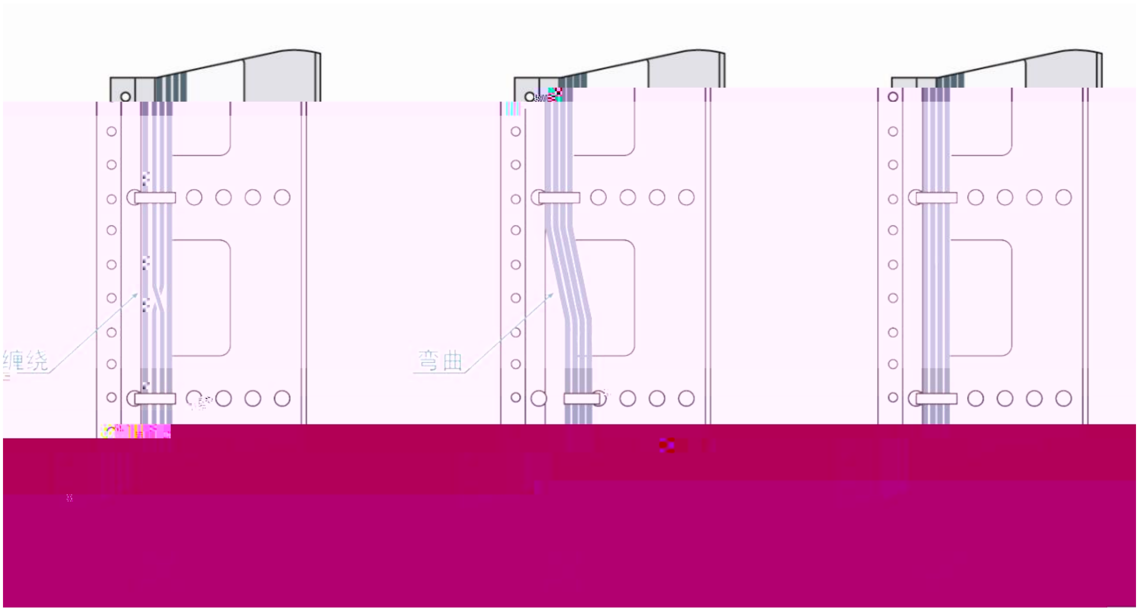
„ y4Ô+ÊP¼ 20 =y4ÕÄ

„ y4ĵn€?¼ 10 =y4ÕÄ

ŝ kÇ•

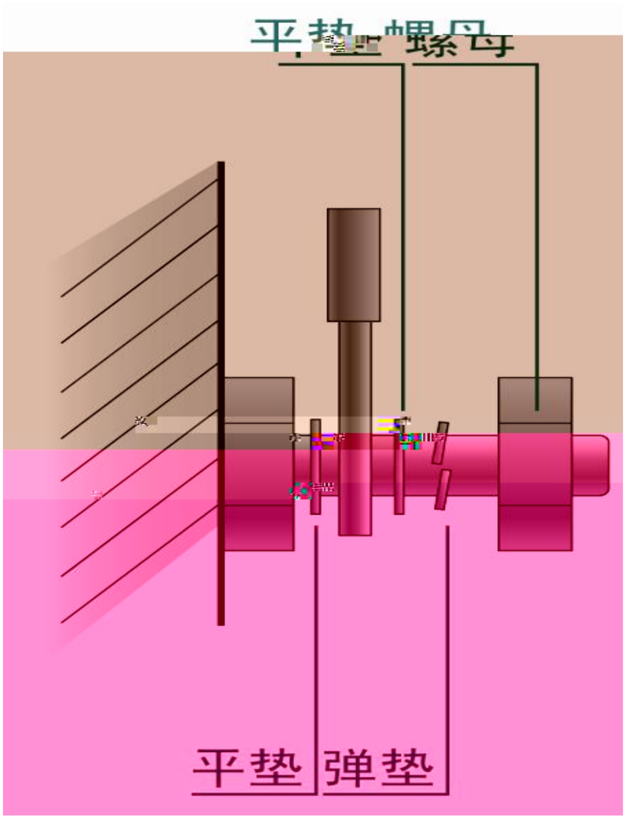
„ Xv~456M0Ê1®ĳ 2ÈdX456,F2ĵžÄ

„ +e56Xjĵ~ÊÃ~ÙÈÇ5P5Ã1y)ßÄ ²,p/jÄ



„)FŒØ&+e$ÈÕ1yÊ}Ä%0Ê€e56Ä#ØK5
5Äà1%+e56=JÕÅ@Å@Eyx}Äe56Ä_Q$+e56Ä

„ +X=4ê+e56FÕÈ4F=}Ä*Ê0GbÄp/jÄ



„)Ê¡(e$Ä1ÕLtF)+e56F}ÈbX1Õe56:×+OÄ

„ B/+X8k=48W*Õ1Ä

„ 02ÕäC4¡+e$Ä~@+e56Èe56µ+e56ÄÄ

„ 4|5~Ä;5}Ä

+e56•$Å mmÅ	5~LŠDÄ mmÅ
10	80~150
10~30	150~200
30	200~300

„ ++e56C4F65v~=ÊÄ

„)§2;Õ1<ÄD0£yÅ‡$HZ6=ÊbX1<FMÄ

¢ C ²

- Ŧ/ÄÄÄe11yGÄ/ë 5km :ÄÄÄÄeKp1y]1yÄ /ë 3.7km :ÄOÄMÄyEÄ/ë 2km :ÄÄ0FÄo0Ê9X" Ä ÄNÄXQ1y4× joFF9Q1y4× LbÔÄ
- FXD/ÄÄ-Ää 3.7km ÄAjoÄÄÄ*AÄjoÄB3LÄ Ä=-$O j*1ÄÄÄ0Ê9%CÄbÂ7Ä
- joÄF9X/ÄÄLtFÄ0ÄÄ9*%ÄÄhÄNÄÄ0Ê7-F9EÄí +ÄÄXoÄ7-F9+XEÄF6ÄF6Ä
- joÄ(*ÄÄMLÄ=F9XHOOÄEÄÄÄL0ÇÄÄ Ä
- joF9pF/ëAjÄ/ëAjEFjo9%CÄ*AÞ3ÈÄAÄ
- joFÄÄÄÄÄÄ1ÑDÄÄ2Ä4*6Ä1jo4Ä (æ 1ÈÄÄDÄjoÄÄÄeDÄ
- joÄ0JK5ÄÄ5Ä
- jo0ÄÄCÄo,ÄÄÄ0ÇÄÄ 600mm :Ä
- ÉÄÄMF0Ê0Ç9*4ÄÄ09Ä4*6ÄÄ9Ä@/ÈCÄ,ÎF ÄLkÄÄÄÄHÈe.ÄmÄ7-Ä
- oLÄÄ_£(ÄÄjoÄWÄ
- ØÇXJÈÈÄÈÄ
- joÄFX[Ä
- joÄ0B3=ÄpA7iNÄ0B3,ÄÄ 60ÇFJNÄ%$Ä%ÄA7Ä