RG-RSR20-X-52 Ò

F^ x Œ

copyright © 2024

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- z **à**Vid
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- z **à**

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- **z** iH**à** https://www.ruijie.com.cn
- z iH**à**Ø**ý**

2. ý

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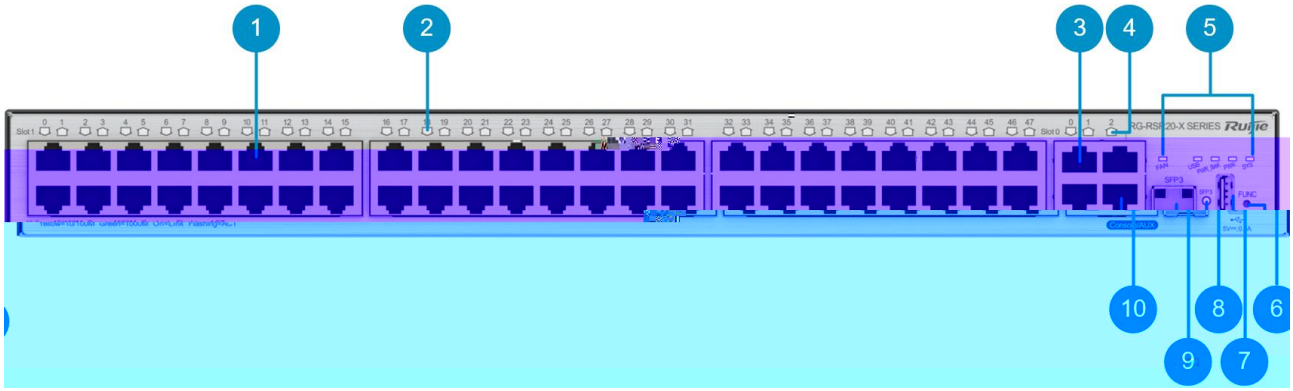
K(ÐØ

CÐ¯

„ ÕÐ67-Ë

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

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 jÿ jÖ FAN (â e7/jÿ USB Aî7 (â e7/jÿ PWR_BAK 7+X+e(â e7/jÿ PWR E(â e7/jÿ SYS .â e+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	.â5F[â e7/jÿ Ö5ZFeÈE 5/8Ö5Fÿ 5/8L Ö5XØ 4Ö5ÿ
PWR	e(â e7/jÿ 5/ÿ5Ëh ÿ5ÑÈ×
PWR_BAK	7×e(â e7/jÿ 5/ÿTZTZÈ× ÿTZ FTZÈ×
USB ÿ	USB 1(â e7/jÿ Ö U -F USB Aî7× 5/8Ö U -F USB Aî7MÈÈ 5/8LÖ USB ÑÔ 4Ö U -F USB Aî7Ze

FAN ẍ	Nþ(ae7/jẍ 5/8hÑþ/hF× 4ÒhÖ Nþ/E52h ×
SFP LINK/ACT 7/jẍ	SFP LINK/ACT

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)4FÞPEÑ08p9,´ 4)4FÕA 1000BASE-T 1p+X¸54¡FÕ p/jÖ

1000BASE-T)54ïj?

-54ï		Ô4ï	
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 E7JÿÊ

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 Ê USB L

±Ce

USB (à7/jØ

FUNC

HSIC-2HS Ž W

HS _ k,95YÈ Ž W²,Ö

ÁÞ	_1 V.35 ÁÈ 568Ø Ap
FO)·	¼ ≤1 9600-8192000 bps
7/jÿ	3 Z 2 Z1 Link/ACT (1 e LED 7/jÿ (*6K.D*0F Õ:r,ÁÞ UP Ž L& 1 Z4ï RDY (1 e LED 7/jÿ Ø Ø
Õ	DB26
)Ø7	)Ø Ö 0 45×)Ø 5Á 95Á)Ø Ö ±40 70Ä
EMC	EMIÖ GB/T 9254.1-2021 ClassA
	EMSÖ GB/T 17618-2015

ÿ

F9G5¼ 56Ö

„ V.35DTE 4 56

„ V.35DCE 4 56

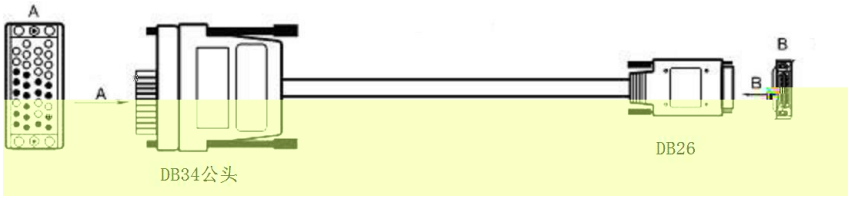
„ V.35DTE-V.35DCE 4 56

F/¼ 56,/j?Mþ/jÖ

V.35DTE

B4 5601_ DB34 ,ó Ò1_ DB26 de Ä

V.35DTE 4 56



V.35DCE

B4 5601_ DB34 ,ó Ò1_ DB26 de Ä

V.35DTE 4 56

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	5/8KÞÈ5/8L Ä-ÄaF65'

HSIC-4G-LTE =_1ÈÑ OFL 9JÄ04È M0ÿ´eÿ7-4FA7k
jÄ

HSIC-4G-LTE Ä4ì

ÿw

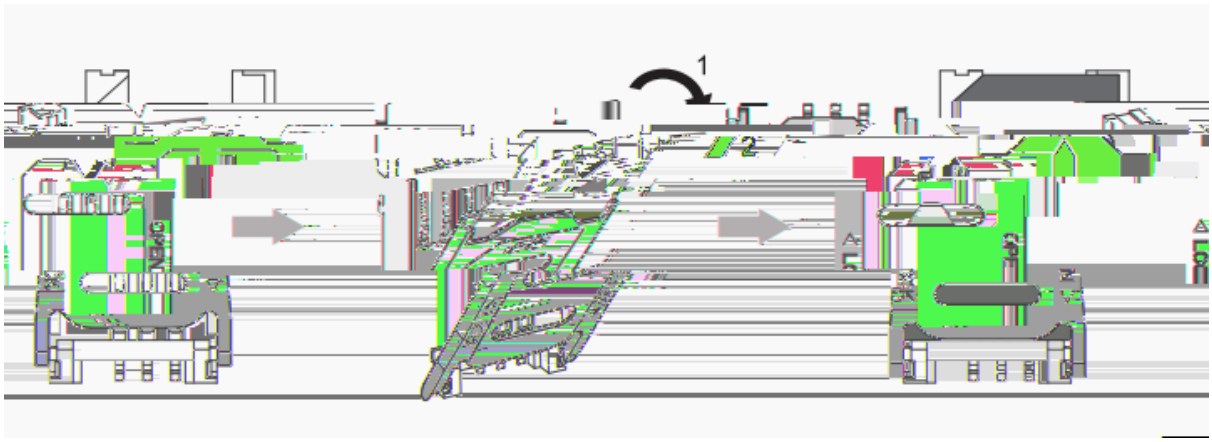
1	1 Z 4G
Ø×	TZ SMA-J ÈXFÑ04ï×
4Ï56	4G Y4ï
_1FO)·	3 QÞÈ WF:Uv,Ï G 4G/3G/2G ‘w+XÄ
ÈÖ	ÈÖ 0 45 × ÈÖ ±40 - 70 Ä
Ö	ÈÖ 5Á 95Á
EMC	EMIÖ GB/T 9254.1-2021 ClassA
	EMSÖ GB/T 17618-2015

SIM Ö

SIM ‘-jØ&HŽwA OPEN 1ÝÀ&HŽ

(wAFÈ 60 (1 SIM ÈÙÀ&HŽwA LOCK ÀÏ

>ØŽw7Aö SIM K1(Ä7-WÏÄ SIM ÈÇp/jÄ



Ž

1 Z HSIC-4G-LTE QM0}B} 2 Y4Ì4M0)GÈ 6.2 8² AÒÏ

+XgM0F5Ý4F5Ý4Õ ANT0È ANT1 !ÏÈ@Ä

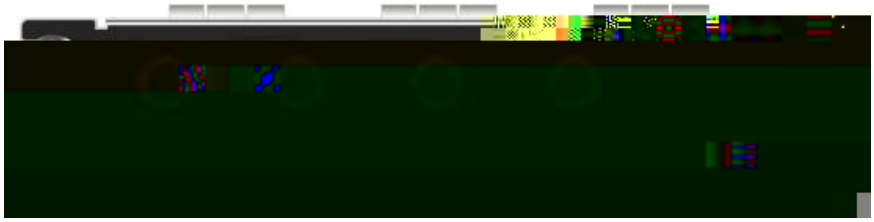
a ÙÀêãk(7/73F>5¤4ÏB6;A>5¤4Ce7\+k>

1.3.4 HSIC-5G-NR /L)

HSIC Ö HSIC-5G-NR

Ø Ce

HSIC-5G-NR F



M7/jÏ$

7/jÏ	hFÏ

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			

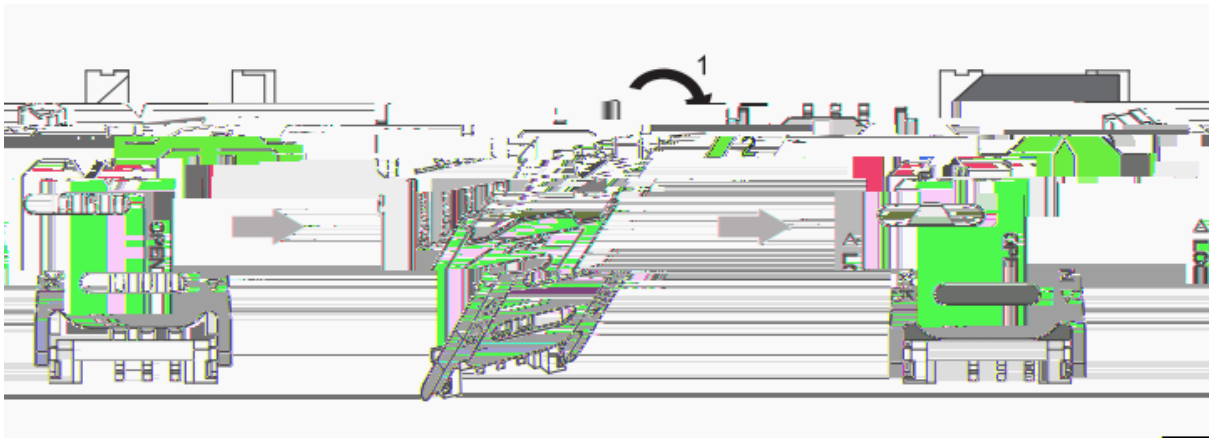
4ÏZ OFL *9JÄ

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&HŽwA OPEN 1ÝÀ&HŽ

(wAFÈ 60 (ä SIM ÈÙÀ&HŽwA LOCK ÀÈ

>ØŽw7Aö SIM K1(Ä7-WË ØÄ SIM ÈÇp/jÄ



Ž

1 Z HSIC-5G-NR QM0B} 4 i Y4È4M0)G€È 6.2 8² AÒÄ

Y4{ D/E-J× +O-(Ê¾ 4 iY4)ivn,ÈÀ Y4{ D/W¾ 16CMÈ7-Ä

+XgM0F5Y4F5Y4Õ ANT0È ANT1È ANT2È ANT3 !ÈÕ ¦ E3WÈ ÈÄ

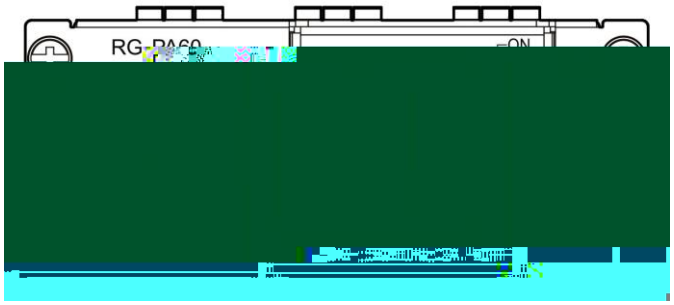
a NAêãk(7/73F≥5¤4Ø6;A≥5¤4Ce7\+k>

1.4 Ê”

1.3.1 RG-PA60 Ê

Ø O

RG-PA60 +eÀQ=ã



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 ALAÔñ È1 RADIUS

„ PPP AÞ¶ PAP ¼

2

)ßC× +OM%eÈ+a˜,Ĝ+eDÄÖÊQJÊO55H€61FE0;È+a˜,MWWWL}-È
GÿX/Ä

jo,$Ö402×ĩ93Ä

)ÊÄ=D%+gžÎ×Ĝ	1.5m Â% +gÿ	0.4m :#vÍ>	
CB,%ÊÂ%73C68*%Ĝ,5pä			

2.2.2 MÓ-

&D5ÊmXDÄPM%LÊÊÃ7/È<
DCFPÊÂÊOF/MÄ

K@ÊÄ+GD+a˜jo,&[GÄÊÖ

0W-$ P	0.5	1	3	5
0W€ (Ÿ26[NÇ 2Â)	1.4×10^{7}	7×10^{5}	2.4×10^{5}	1.3×10^{5}

L&FÈ+a˜jo0Ÿ[´-G¨F(9Ul,ÊÈÄ,JÊOHŽ7Ä+aG&1
FE0;È µ SO2Ã H2SÃ NO2Ã NH3Ã Cl2 1y9Ä ƒ€Ö

Ÿƒ	wÄ 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-

DÄÃÑÊ%46ÈÊ%Ÿ¯Ö.dÄÃÊ5M%2
8,Ä' Ö

„ ÊQÈÃe4Ã'+e1yF+|+ej)Ä

„ µ)ß ³ ` Ua Ì×AV> V

⚠	E/Æ
9	,L*CE ý 18 M6/AêF @+kJCL* 24E, AAê%ë

2.2.8 ÓG´

AêDE-ÕXG-M0

„ .ÀÔ+a,Ñ JNÞ+%L$D+aj1Ä

„ .ÀÔ8D08,FJNÞ+5Ä

„ .ÀÔEa(*Ì-O_Ó+aÞt,GÇÄ

„ .ÀÔ8Ã

2.3 GVÔ

Ø ÈÖ

„ 5

„ FÕ56

„ -(Ã7

5Ö

„ ÞM0

„ LbM%e7…

FÕ565Ö

„ +eÀï

„ G54ï

„ Z54ï

„ QÕ56

KF- RSR20-X-52 D%+gÅLz+k 5 4 5 4 Ô 5 M6 2 Ç c>

-(Ã75Ö

„ HUB FÔ

„ CSU/DSU F DCE Ã7

„ G54 _4 Ì 0 5 Cµ× 4 ´ PC j

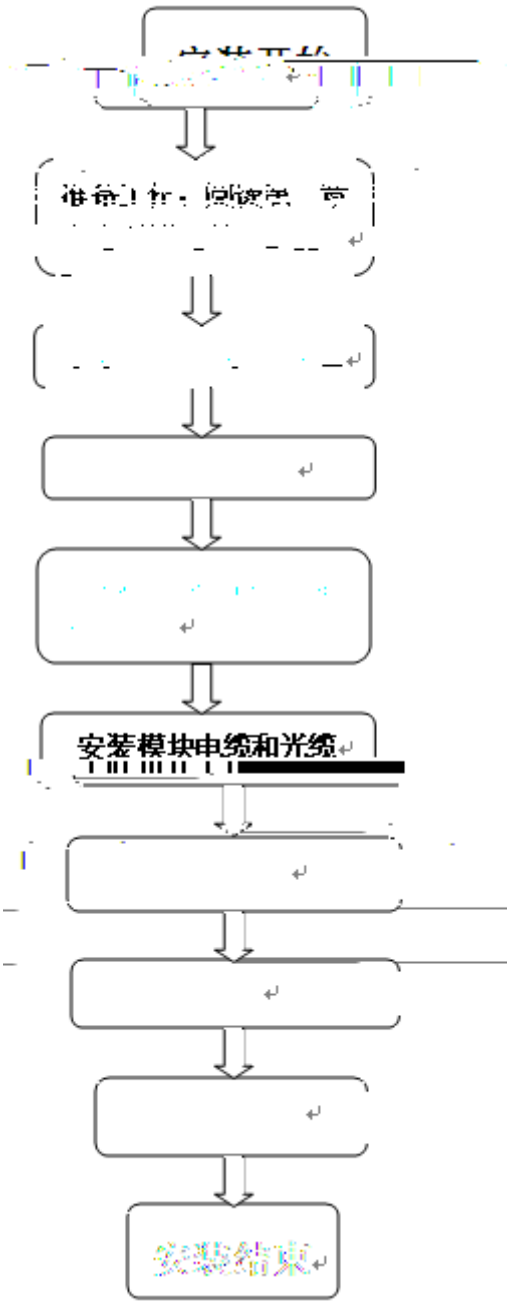
„ D+a˜Q‡

„ +eÀ

3 è-

3.1 è8W

JFX6[illegible]F65B[illegible]98F[illegible]



3.2 Ò–

[illegible]

089T/[illegible]

„ [illegible]

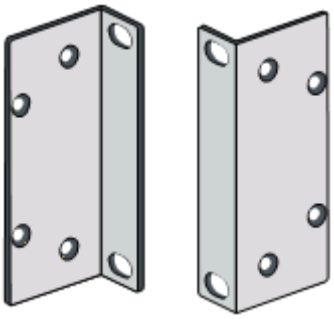
„ [illegible]

3.2.1 GÒ

[illegible] RSR 3+GD+a˜_9'— 19 9(7;j(F|A^|[illegible]XD+aĽ¿LtV,*Êt&
F[illegible]

RSR20-X-52 ¯XL¿LtV,[illegible] 1U ,´
[illegible]

26c



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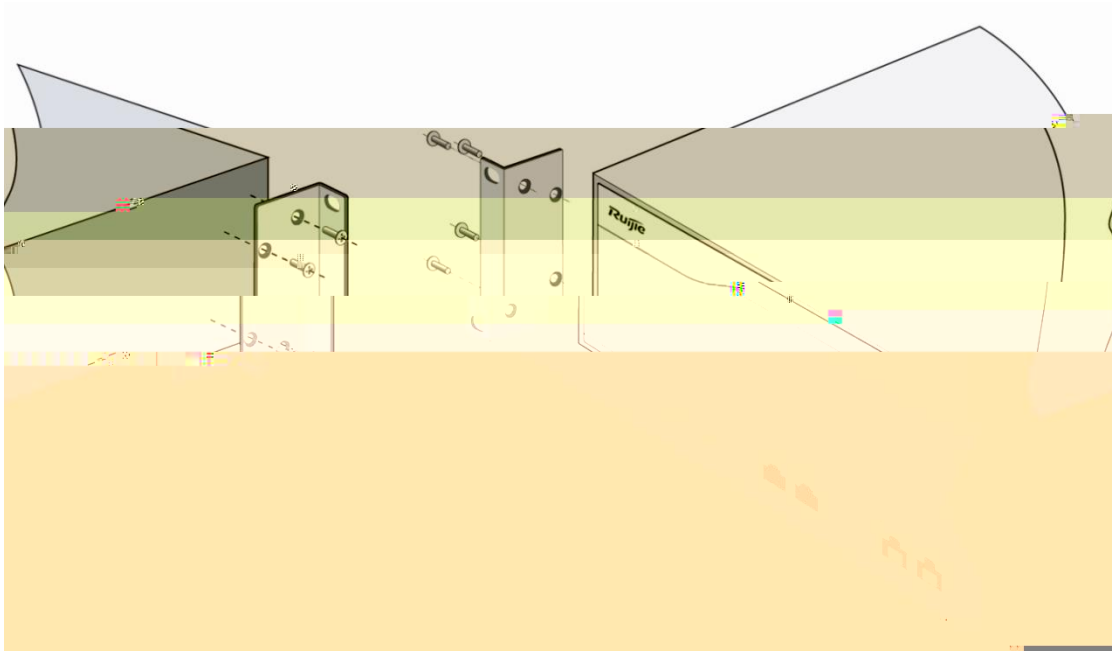
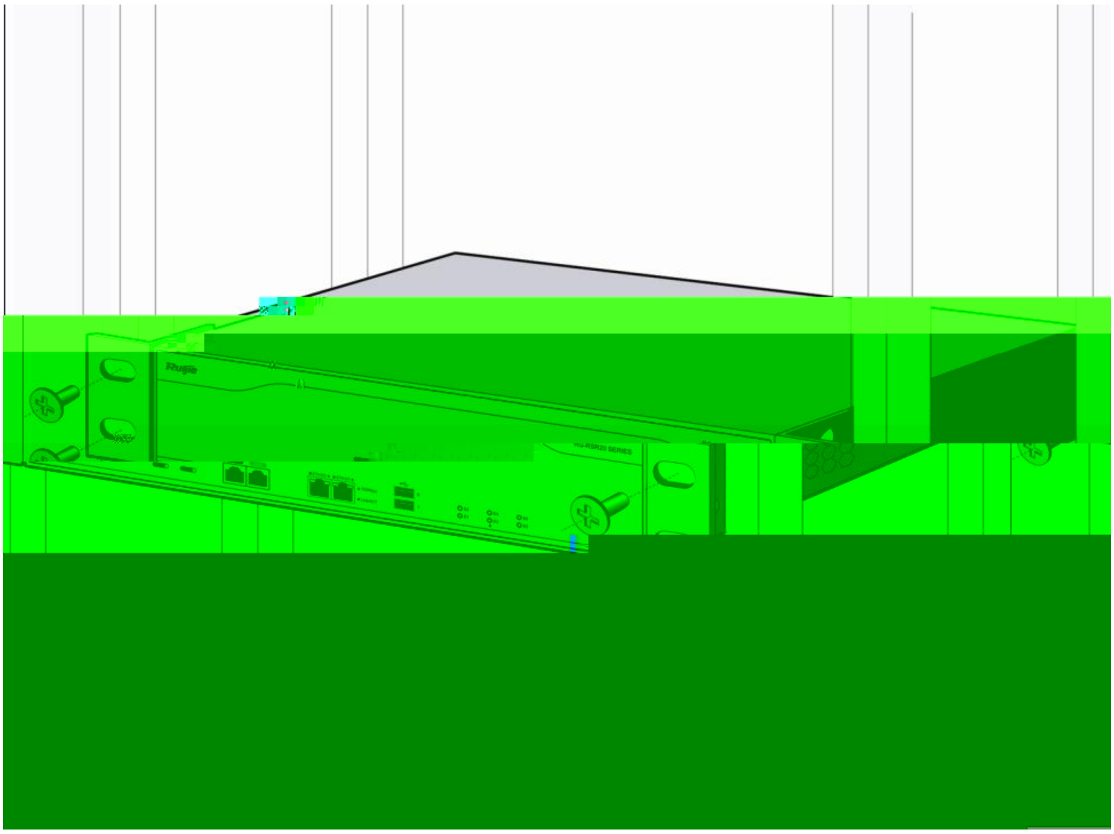




7ŒĒ3ĵĔ

3.2.2 GŞŲ

XĹŦĵĔ 19 9(7ĵ_6D+añ5X(ĵĔ
1ĵE0Ŧ©Ö

- AĘcW8Ö
- +XLV,ĚE(2/@_+%8B,X(B5PZĵ0vĵà

19ö QÀD+aˆ¡GÈ¡QÐ+aˆkjÀ3Wõ@jÄ

18W Q‡*Êe¡Ä

1Ëý-PÛP Ð9,JÑQÄ

a /Ä7‡P× WÊ¡0AcN±D%+gÀ+k>

a /Ãe7‡P× W¡M6/D%+gž+A+k¡P× WÐÃD%+gž@+k>

a 1bÂ1b¡B-EùÑ%+g¡P× W•ÑÈ=N¹+ÐW¼ÐB-C¡
¡Ê0D%+g¡P× W¡ëÐ%+g¡P× W¡ÛD%+gž¡M˜ ¡@,¡P× 3/6E5N
/U¡DÃ5¡D%73P28* W•..

a HSIC-5G-NR 3Ä+kL6; FPEýCLI ³ **remove Ak 0 D¡M61• » C¡ý** 5s DÃ^ 5s 4¡ÕÕ–
Ãä¡ 5s DH@%C>

3.5.2 ¡Ÿ¡È–

10ÖD¡M¡¡ÄÄ

1Ä0¡Q‡¡Ãe56Ä

19ÈXq¡M0ö¡JÑQ¡T× ,3W*=¡Ä

1ÖD+aJÑQ¡T1=¡Ã QÀ¡FÈ¡Q¡Ta/Ð+aˆkjÄ

1Ëý-PÛP Ð9M0ö ¡JÑQjÄ

a D%+g¡P× W•Ê¡AÁ7E

a /Ä7‡P× W¡Ê¡P7¡ÄÄ¡N±D%+gÀ+k>

a /Ãe7‡P× W¡Ê¡P/D%+gÀ+k¡ÃÊ>

a D%+g¡P× WÊDÑ¡WB-,¡Wµh¡NFAÐ%+g¡ÑFPO>

a D%+g¡P× W•¡B-DL*,¡Ey%6Ð/ñhE¡¡WLÊ0Ac+gÄÊ
8*¡Ä

3.5.3 ¡È– mÃ

XÐ¡Q¡KÈ9'— ¡Ø

„ ÒQÃe56ÈÝe56_VF9G¡Ä

„ ¡Q¡Ã¡ÈÝQ¡E¡VhÄ

XD+a(©s enable Q?;¡Ã¡JÑQ¡VÕ¡5¡ÄE

3.6 G

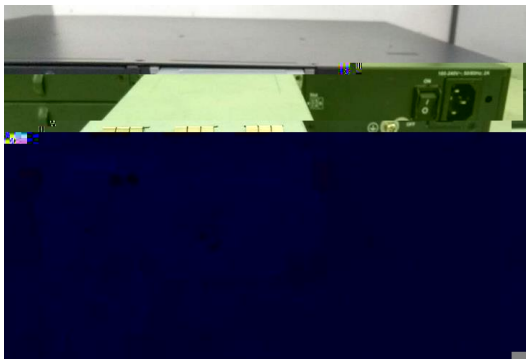
3.6.1 G ±

B 6B 2 5 RG-PA60 +e

1 D+a j, M) 5 ,.Ö

1 M0 e Q -0 Q Ä ,.Ö

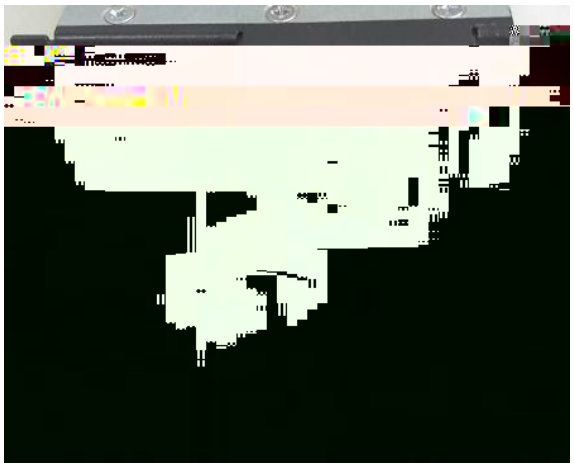
1 D+a e Q+a j M , e Q - , 0 E H) U Ä ,.Ö



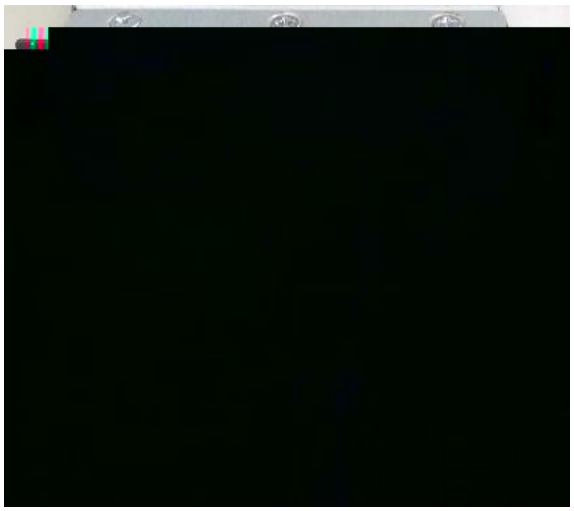
1 D+a e Q A D+a j G D+a e Q D+a j M 3 W E X M0 û
3WD+a e Q , E Ä ,.Ö

1 P 9 , e Q Ä

a



+eÀÈ+eÀÌ]ÈÖ



FJE:] 687Aó(wZ5Ž

%5DP&k&V;°	RDY ¶e1©@+k%-A	PWR =/p&
+k§ÊLzFJ5		
+k§ÊG/		

3.6.4 ¿Ž

B9,PÔÀÖ

10È +eÀQ‡ 0£ 2))´ 5ž Ä

1ÈÂÔ +eÀQ‡ 05¾ 2))´

4 nÒ-

4.1 nÒ-

4.1.1 Ë

XDÀ10ÈÈNG×FE÷ Console ÿÐ+aF$5ÈÈÕ

10Ö¡p/jÈ01¡V4ÿF65Ì¡bFJE7ó RS232 4Ì56Ð+a˜ Console Ä5Ë× fM’
ÅÕ

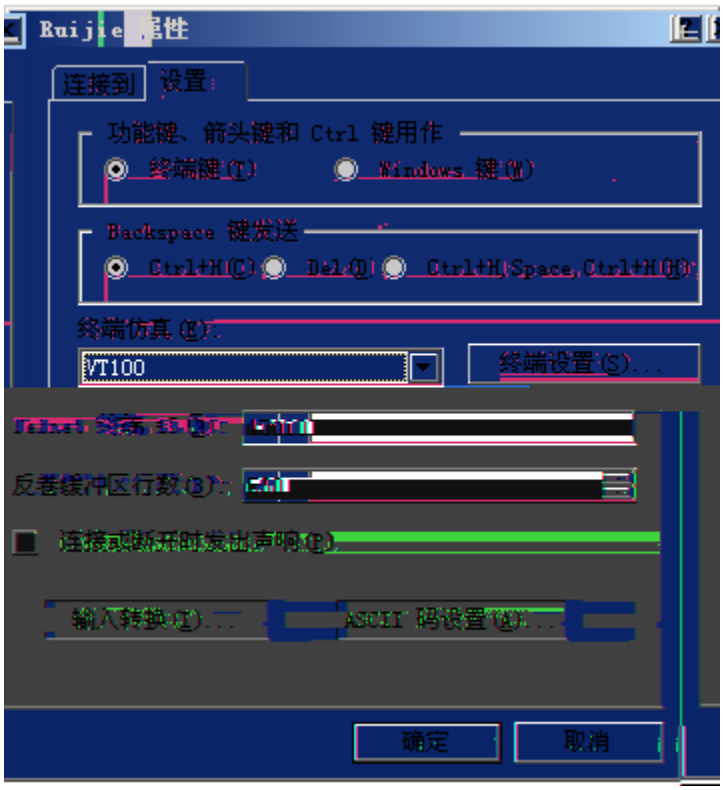
FJE÷Console]’G5Ÿ3

1Ö5¡4ÿ,FJAÅ5Ò+XÌÈM0Ë¡4ÿ/-O0;È Windows ÿE5Ë Hyperterm(Cµ
4× 4ÿ)1yÈ¡Cµ4× 4ÿjÈ$Ë0;ÄÈ¡Cµ4× 4ÿEÕ5ÈÕ9Ð+a˜ Console FÕ
,bÈ5ÈFJAÕ 9600 (©)Ã 8 Ã 1 ÕÈPÃ¡ÈF94ÿ/-O2j× VT100È
;.,´ Windows ,Cµ4× 4ÿ,Ã5ÈMÄ

*0ÈÕ

[redacted]

F9Ð+a˜ Console FÕ



]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

DãèÈFÄÐ

„ FJNþ3+5_Vh

Ä+a˜+eÄÑ¡wÉ¿ÓNÈXD+a˜FJNþtFÄÓ0ÞD,Ä

„

5 GmÕ

5.1 p̂-c

RSR20-X-52 i¥M:,´ PWR 7/j¥Ý+a¯e¥V*)àLÏ¥j¥(1B01]´
B¥2hÈF¥Ö

„ D+a¯e¥V¶

„ D+aÏe+e¥V¶

„ D+a¯e¥_VFÕ

„ % T[illegible]

a B-C¥k+k¥Ó=× 2N¡ Status =/p¥ /POWER =/p¥eC¡B-D%6¡¶

6 Ž

XDÄÈÈ4/4Ъ6EÕÄ6FBÄ

6.1 Ä

6.1.1 bá

6.1.1.1 V.35 “

Ð+a4¡ÍE V.35DTE Q?ÈJE÷ V.35DTE 4Ъ6ÈÕ GV EÃe V.35 Modem 1y)1A7×
Ð+a4¡ÍE V.35DCE Q?ÈJE÷ V.35DCE 4Ъ6ÈÕE V.35 DTE Q?¸)1A7Ä2
+X¾ HSIC-2HS 1y4¡´ V.35 DTE/V.35 DCE QÄ

2ÎÊ90/(©ºÄXÈ K@55 FJE÷ V.35DTE-V.35DCE 4Ъ66M6ÂÄ

F2+XA7	Q?	FÕ56 1	)1A7
HSIC-2HS	V.35 DTE Q?	V.35DTE 4Ъ6	GV EÃe V.35 Modem 1y
	V.35 DCE Q?	V.35DCE 4Ъ6	xE V.35 DTE Q?¸A7
	6M6ü Q?	V.35DTE-V.35DCE 4Ъ6	K@55 HSIC-2HS NMX-4HSH

6.1.2 E1 /Lá

E1 4FJE÷ E1 4Ъ6*V Modem FÕ

6.1.2.1 DB9F /L E1/CE1 ÄÄ Modem á

1) FJE÷MÄ56

2) FJE4Ъ6ÄdÕ Å

3) FJE4Ъ6ÄÕ

F2+XA7	FÕ56 1	FÕ56 2	)1A7	
HSIC-2E1/CE1	MÄ56	/	BNC Õ	*

Modem

6.1.3 CONSOLE Lá

Dã /Ĵ CONSOLE ø j× f È8j RJ45 ,´ ÈÕX DB9F F RJ45 4Ъ6È65+XEœ
d RJ45-DB9 ¡G¥ïÊÕ PC ,´ DB9M bÄ

F2+XAĩ7	FÕ4Ъ6 1	FÕ4Ъ6 2	)1Aĩ7
D+a˜ /Ô j,´ CONSOLE	DB9F F RJ45 4Ъ6	/	PC ,´ DB9M b

6.2 ¡54

F 4Ъ6 /EÕÊ Modem 4Ъ6+a Modem ¡Ä6 /EÕwX K@§5 AÒÈ¡£=0 Ź
p/jÖ

4Ъ6AÒÏ

V-16130075-000	2EÕ4Ъ6È DB9 ÿ/Eœ RJ45 œÈ L=2m	console 4ï
V-03260025-000	CAB-V.35DTE/POS26-34PM/3M	V.35DTE 4Ъ6
V-03260028-000	CAB-	

¢ A ² Ò– ẽy

\ ¢ B ² G Ž

p ¾ 19 9(7 j È Ã 56 FJE € 4 ïe ¾ 54 ïjo, Î u Â C 4 F
;C 4 ¾ 9 E Ã e 56 Ã B * 6 nXj, Â Ä 7 -nXjFG € Ã e Ã j E € 4 È
jo Î u Â ¶ + e Ã Ã b M 1 1 y, 5 Å F : C 4 F ; C 4 Ä

Ê e

„ +e Ã 2 Ã J+e 562 Ã e 562 3 n * Ê z ´ Ä + e 56 F ´ 5 =: ×) 4 ¼ y _ È 2 «
+e 56 Ã + e 56 F ´ 7 =: Ä

„ F J E + e 562 3 n * Ê z Ä + e 56 F ´ 7 =: ×) 4 ¼ y _ È 2 « e 56 Ã + e 56 F ´ 10
=: Ä

„ QFO+e 56 Ä SFP++e 561 y Å z Ä + e 56 F ´ 5 =: È 4 ¼ y È 2 « e 56 Ã + e 56 F ´ 10
=: Ä

Ê e

„ y 4 Ã y 4 Ô ¶ $ ¾ 25 = y 4 Ã Ä

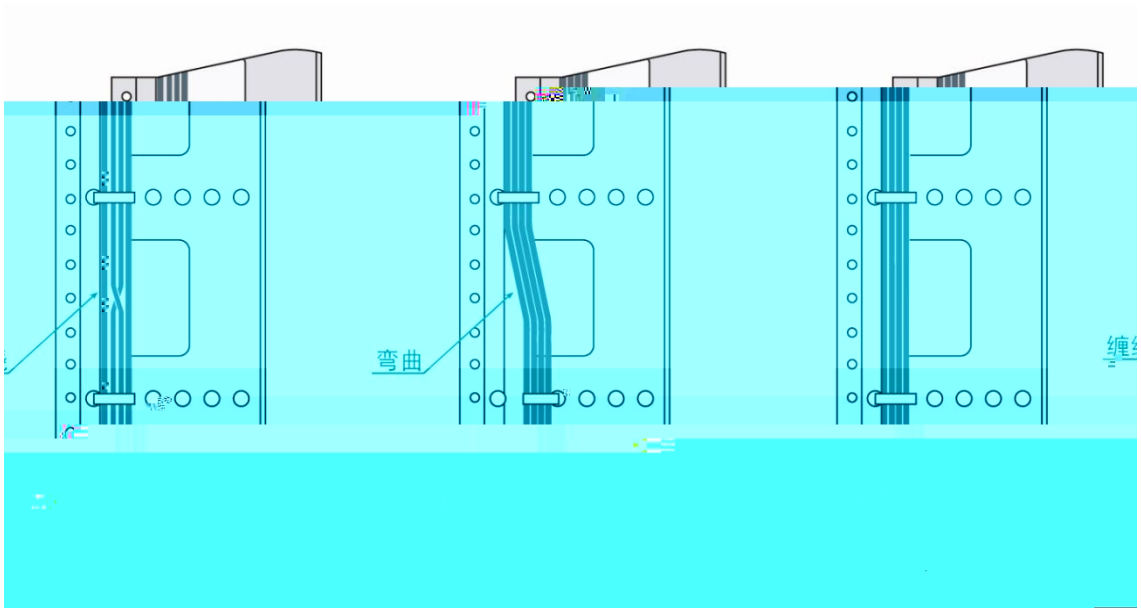
„ y 4 Ô + È ¾ 20 = y 4 Ã Ä

„ y 4 Ã n È ¾ 10 = y 4 Ã Ä

Ê k ¢ •

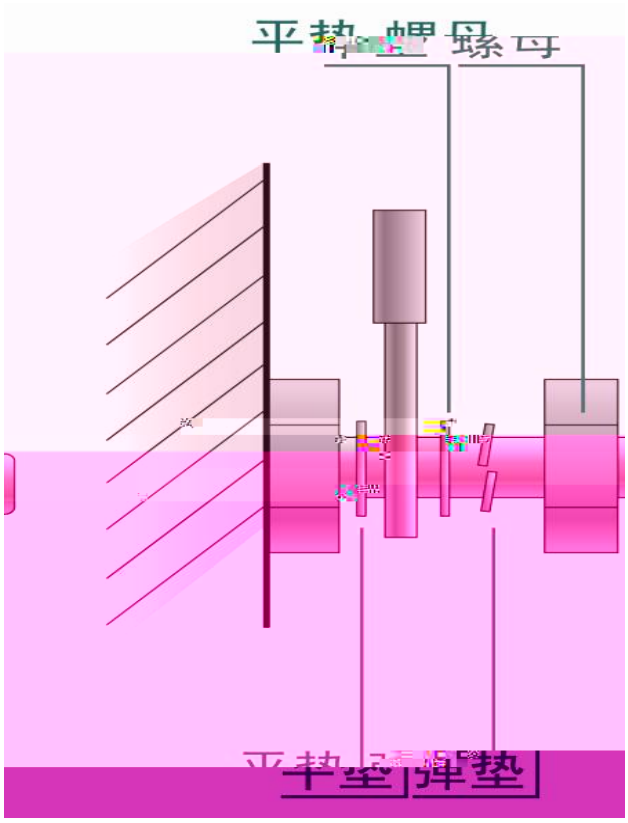
„ Xv~4 56 M 0 ¶ 1 ® 2 È d X 4 56, F 2 5 Ä

„ +e 56 Xj V ~ Ã ~ U È Q 5 P 5 Ã 1 y) B Ä ², p/j Ä



„)F@Ø&+e4E4Ĩ1yÕ¡A%0Ĩ6y¡e56Ä¥Ø&Ĩ5
5Ä0%+e56=JÕ@Ã@Ã@Ei¥Ã¡e56Ä_Q$+e56Ä

„ +X=4e+e56FÕÈ3F=¢*Ĩ0GÈ-bÃp/jÄ



„)Z;e4Ã1ÕLtF)+e56F¦Ê-bX1Õ¼e56:× +OÄ

„ B/+X8k=e3W*Õ1Ä

„ 62ÃAC4¡+e4Ã~@+e56È-e56¡+e56Ã1Ã

„ 4¡5~Ä¦F¦Ä

+e56•Ä mmÅ	5~LÃ mmÅ
10	80~150
10~30	150~200
30	200~300

„ ++e56C4F65v~=¢Ä

„)¢2,Õ1 ÄD01yÃ¢HŽ6=MbX1 FMÄ

¼¢ C ² ¾Ã

„ ¥F/ÀÈÃÃe11yGÀÞ/ë 5km :ÀÝFÃ7ÀÃeKp1y]1yÀÞ
/ë 3.7km :ÀÝÕÃMÀÝyEÀÞ/ë 2km :ÀÝ0FÀÞo0Ê9X"
ÀÞ=NÀÞÈXQ1y4× joFF9Q1y4× LbÔÀÄ

„ FÝXD/ÀÞÊ-¥Êé 3.7km ¢ÀÂjoÈÀÞÀ*AÞjoÈÀB3L¼Ý Þ=-¼O
j*1ÀÞÀÞ0Ê9%CÀÞbÔÀ7Ä

„ joÀÞF9X/í-ÀÞ¢tFÈ0ÀÞ9*⁄₄ÀÞ¢hÞNÀÞÀ0Ê7-F9EéÍ
+ÀÞXoÈ7-F9+XEéF6ÞF6ÔÄ

„ joÀÞ(*ÈÀÞ⁄₄MLÀÞo=È9XHOOÇÞEÉÍÞÈL0ÇÀÞÈ
ÔÄ

„ joF9pF/ëÄÀjÀÞ/ëÄÀjÉÍFjo¼%CÀÞ*AÞ3ÈÞÄ

„ joFÞÞDÔÇ÷NÀÞÉ/Þ"1Ñ"DÃWÍ÷2Ú4*6Þ1jo4¼ (æ
1ÈÝ7ÚVDÍjoÉ¼%eDÄ

„ joÉ0JK5ÚÚ4E5Ä

„ jo0¼ÚÚ%CÈo,¼MÀÞÀÞÀ0QÉÜÜÞQ 600mm
:Ä

„ ÚÝ7Þ5MF0É0ÇÞ9*4¡È09014*6Ú9È@/ÈCÞ,ÍF
ÞLkÈÑÀÈÉ÷HÈe.ñm,Ý-Ä

„ oL0ÇÞ_É(1ÈjoÜWÄ

„ ØÚXJÈÉÄ÷ÀÄ

„ joÞ÷FX[,ÚÄ

„ joµ0B3=¼pA7iNÞ0B3,¼É}¯ 60ÇFJNÞ%$Ü%ÞÀ7Ä