

RG-RSR50E-80 V5.0

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• 7*24h

• 7*24h

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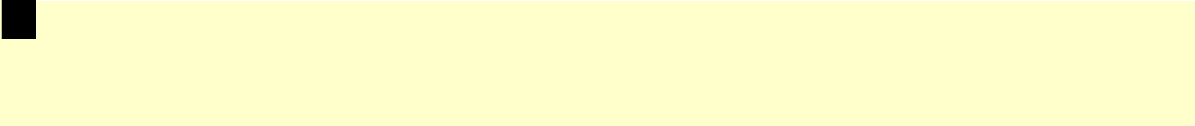
APP



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doc@ruijie.com.cn

1.



2.

RG-RSR50E-80
CPOS ATM E1

10GE GE 2.5G/622M/155M POS

■

■

■

GB 4943.1-2011

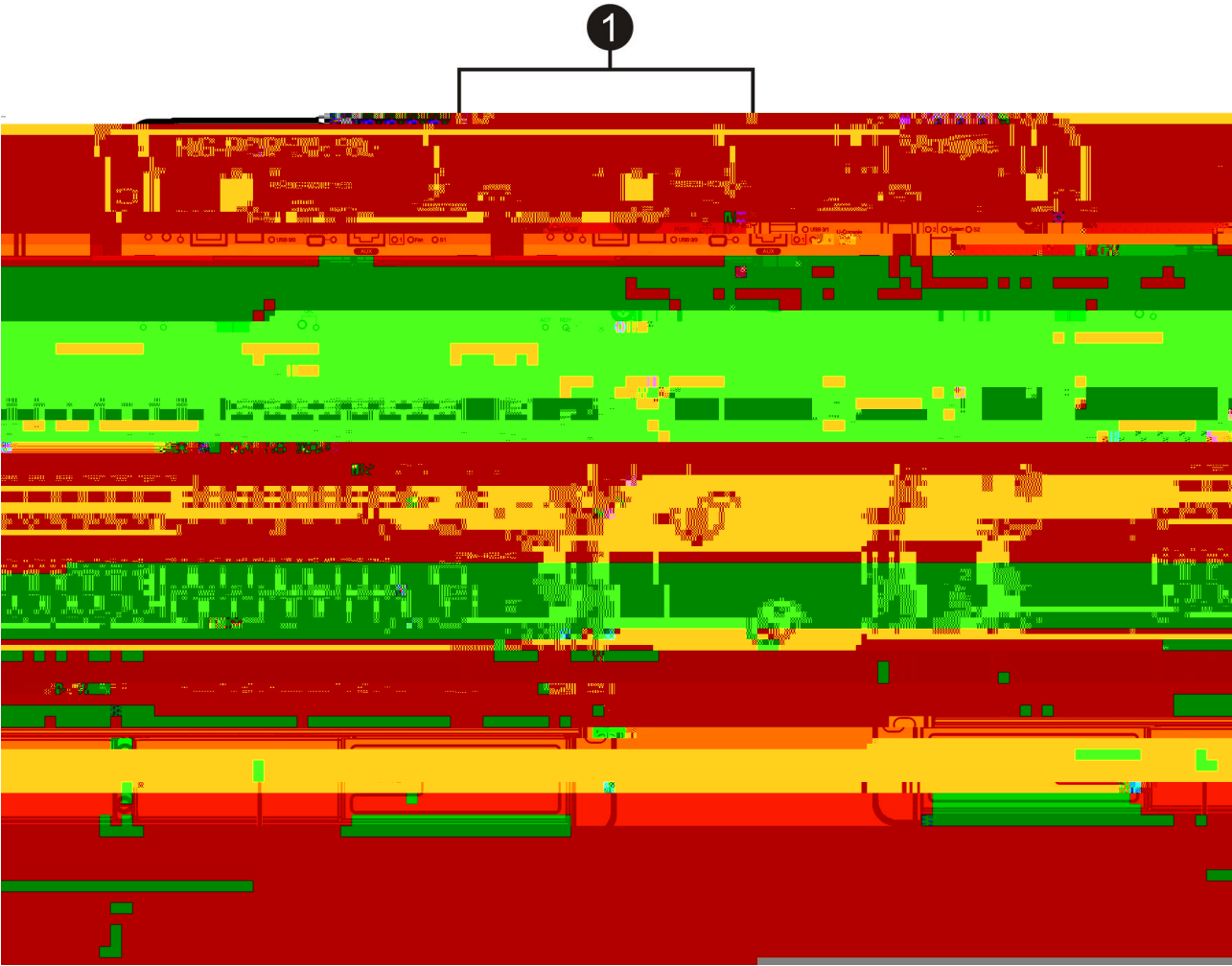
■

19"

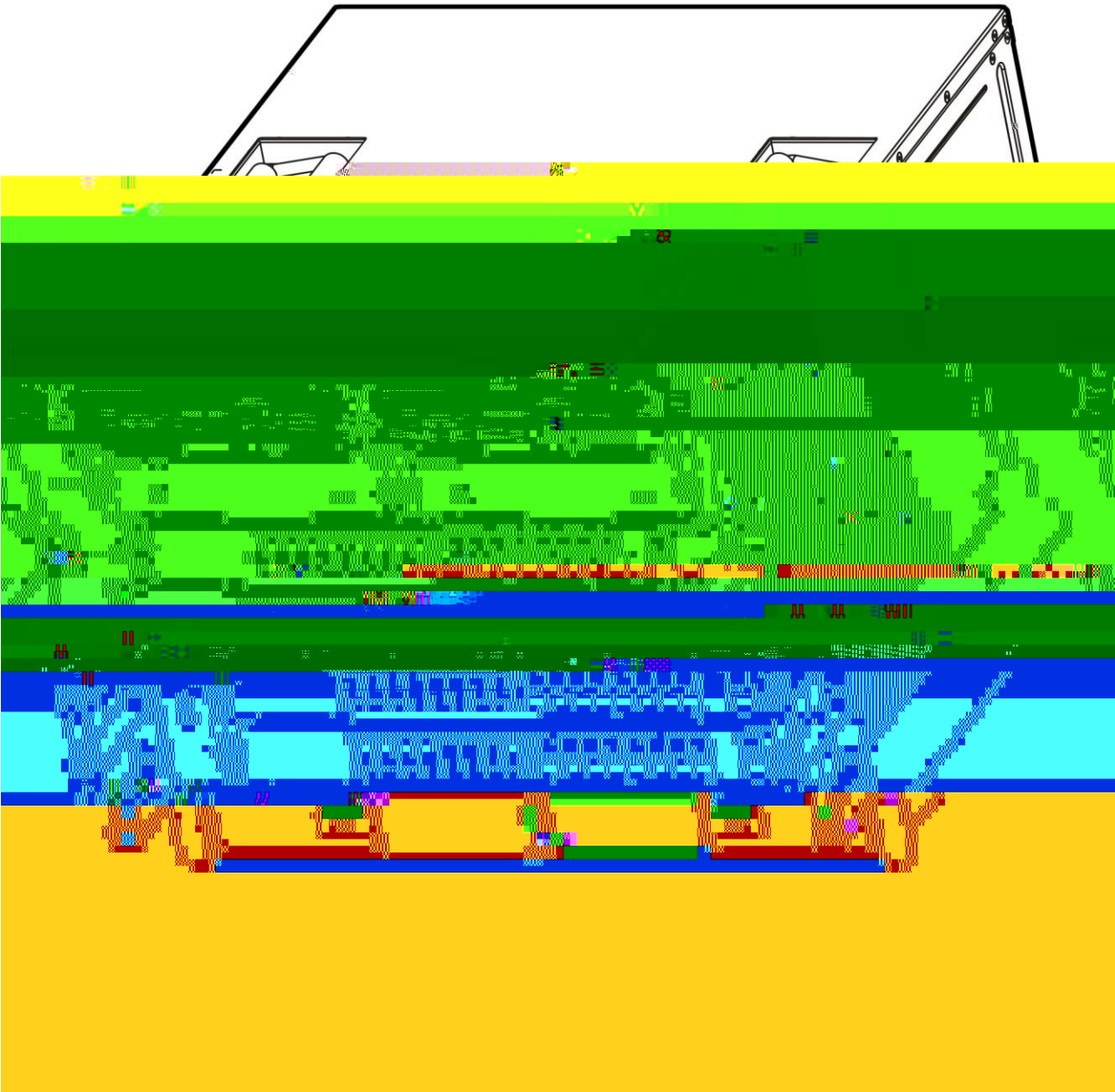
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1.1.2.1 RSR50E-80

1-1 RSR50E-80

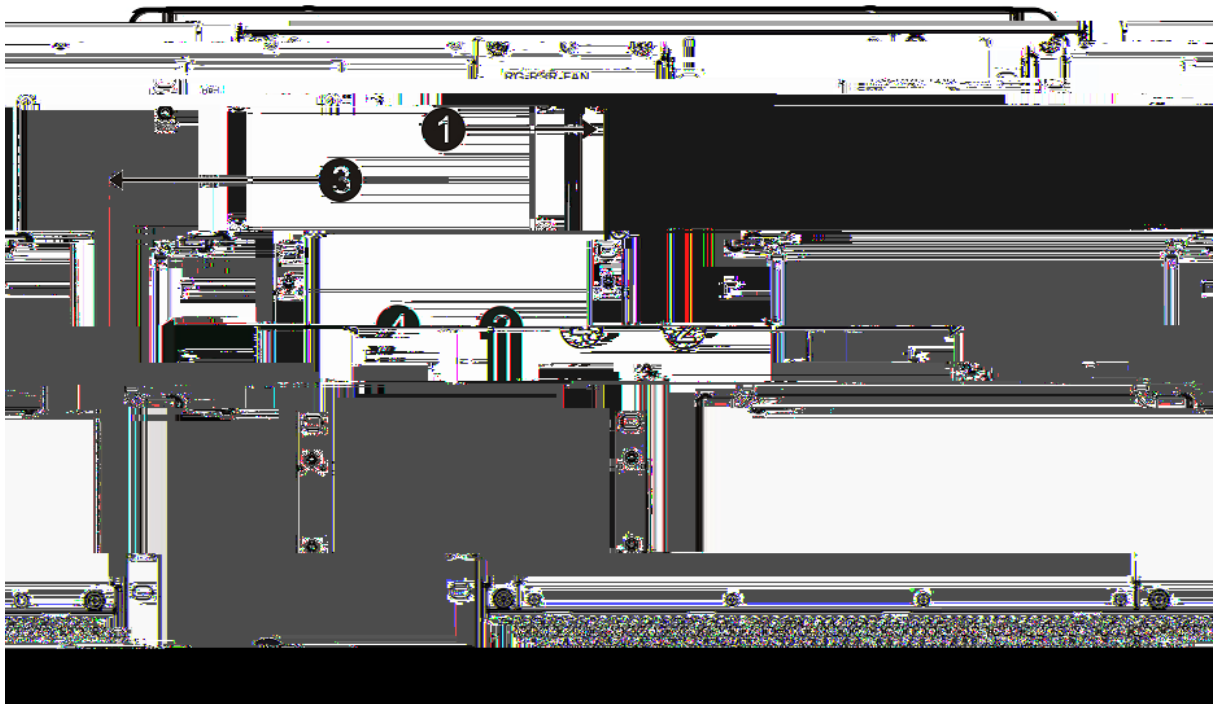


1-2 RSR50E-80

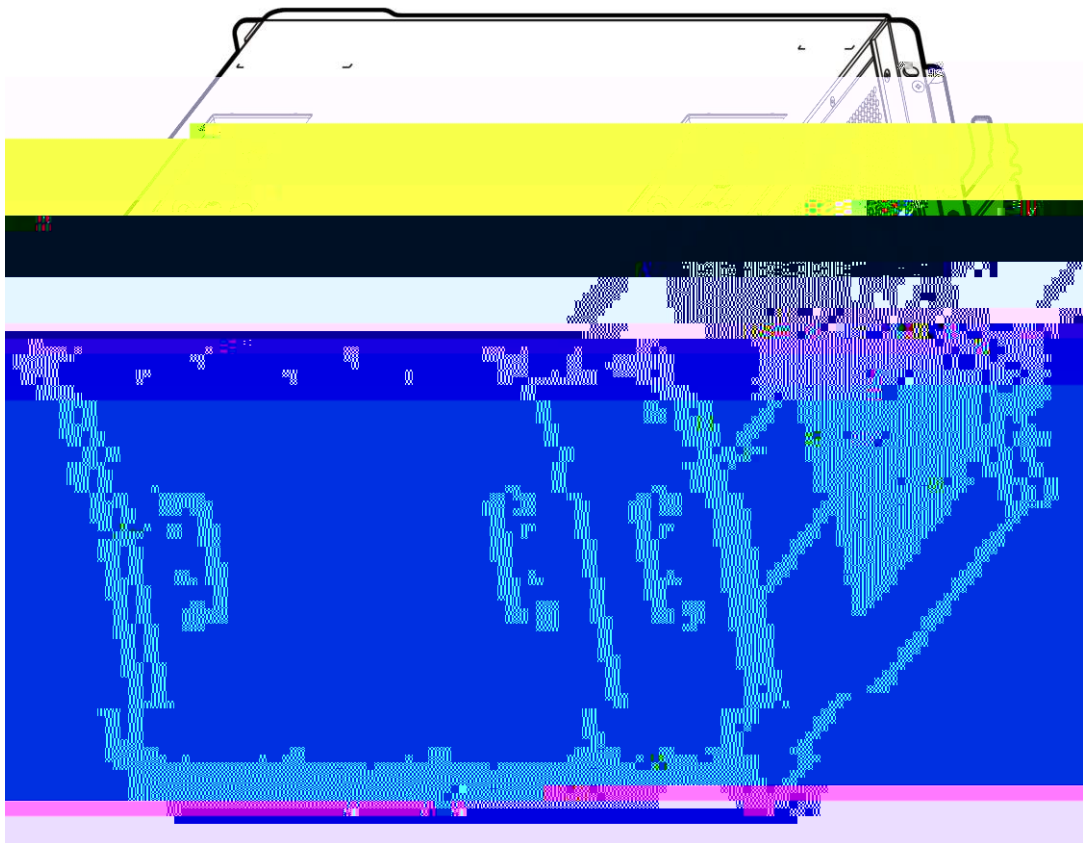


1	M1/M2	5	
2	(F1/F2)	6	1 2 3 4
3		7	
4	ESD	8	

1-3 RSR50E-80



1-4 RSR50E-80



1		4	
2		5	
3	RG-RSR-FAN		

1.1.2.2 RSR50E-80

1.1.2.3 RSR50E-80

RSR50E-80

1-1

	RSR50E-80	
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EMC	EMI: GB/T 9254.1-2021 FCC Class A
	EMS: GB/T 17618-2015
	GB 4943.1-2011 IEC60950-1:2005+A1:2009 EN60950-1:2006+A11+A1+A1
	0 to 45°C 3000m
	-40 to 70°C
	10% 90% RH
/	0-3000M(0~45°C)

Fan		
S1 S2 S3 S4		
VSUM	VSUM	VSU Master VSU Master
1-4	VSUM	VSU VSU VSU
SD	SD	SD SD
USB0/0 USB0/1	USB	USB USB USB
U-Console	USB	USB USB
Link/ACT		LinkUp
1000M	1000M	1000Mbps 100Mbps 10Mbps
FUNC	/	
OFL		5S , OFL



console U-console
U-console LED
console

U-console U-console PC
U-console U-console LED

	RSR50E-RCM80
CPU	RISC
BOOTROM	8MB
Flash Memory	512MB
DDR2 SDRAM	2GB
	F1 : 10A/125V
	1 Console 1 AUX 1 MGMT 2 USB 1 SD 1 U-Console 1 FUNC 1 OFL
	≤ 45W

1.2.2 SD

SD	RGOS	“	”	SD	SD
	SD	SD		SD	
SD					

1.2.3 FUNC

RSR50E-80

FUNC

■

SD U FUNC

■

SD U FUNC SD U



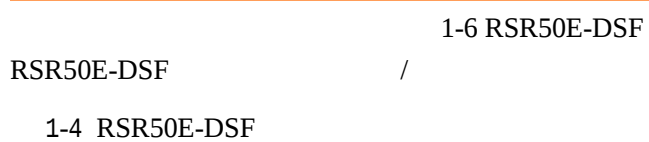
SD U SD SD SD U

P V1_ _R _install.bin

SD U SD

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- 
-

1.3.1 RSR50E-DSF V5.0



ACT		
OFL		OFL5S RDY

RSR50E-SIP2 V5.0 2 1000M RJ45 1 Link/ACT SFP
 1 Link

1-6 RSR50E-SIP2 V5.0

Link/ACT	RJ45 0~1	1000Mbps 1000Mbps 100M//10Mbps LinkUp 100M/10Mbps	LinkUp
0F 1F	0F~1F	LinkUp 1000Mbps	

1-7 RSR50E-SIP2 V5.0

	RSR50E -SIP2 V5.0
CPU	RISC
BOOTROM	2MB
Flash Memory	512MB
DDR2 SDRAM	2GB
	F1 5A/125V F2 10A/125V
	2 10/100/1000Base-T/1000Base
	IEEE 802.3
	2KV
	ESD 6KV 8KV
	NME DNME
	≤ 25W

RSR50E-SIP2 V5.0 10/100/1000Mbps /
 RJ45 SFP Small Form-Factor Pluggable

RSR50E -SIP2 V5.0

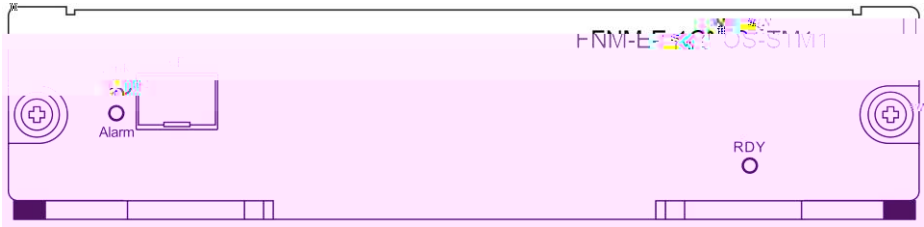
BOOTROM	2MB
Flash Memory	512MB
DDR2 SDRAM	512MB
	F1 15A/125V F2: 5A/125V
	2 FNM
	≤ 25W

1.6

RSR50E-80

1.6.1 1 155M POS FNM-E-1CPOS-STM1

1 155M POS FNM-E-1CPOS-STM1 RSR50E-SIP1-X
RSR50E-SIP1-X FNM-E-1CPOS-STM1



1-9 1 CPOS FNM-E-1CPOS-STM1
CPOS RDY CPOS 2 Link Alarm
1-9 FNM-E-1CPOS-STM1



CPOS CPOS POS 155M SDH 63 E1
E1-F SFP

1-10 FNM-E-1CPOS-STM1

	FNM-E-1CPOS-STM1
CPU	RISC
BOOTROM	2MB
Flash Memory	512MB
DDR2 SDRAM	2GB
	R1033 5A/125V
	1 155M CPOS 155M CPOS 63 E1 E1-F
	155.52Mbps
	ITU G.707 (SDH)
	FR HDLC PPP
	ESD 6KV 8KV
	≤ 30W

1-11 CPOS

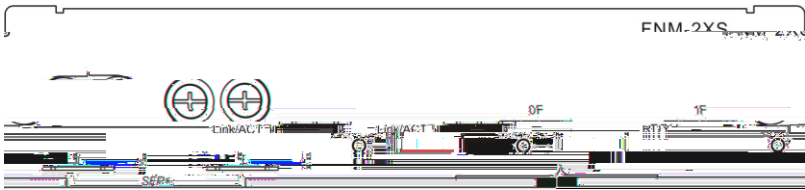
SDH STM-1

	SFP/LC
	SDH STM-1
	155.52Mbps
	SDH155-SFP-SX-MM SDH155-SFP-SX-MM SDH155-6 31.2 r3 1 97.2
	850 1310

SFP

1.6.2 2 FNM-2XS

2 FNM-2XS RSR50E-SIP1-X RSR50E-SIP1-X
FNM-2XS



1-12 2 FNM-2XS
RDY Link

1-18 FNM-

	10GBASE-LW SFP+
	10GBASE-SW SFP+
	10GBASE-EW SFP+
	IEEE 802.3
	ESD 6KV 8KV
	≤ 45W

FNM-2XS

SFP+

1-20

	(nm)		um	MHz·km		dbm		dbm	
XG-SFP-SR-MM850	850	(Lc	62.5	200	33m	-5	-1	-	
		)		160	22m				

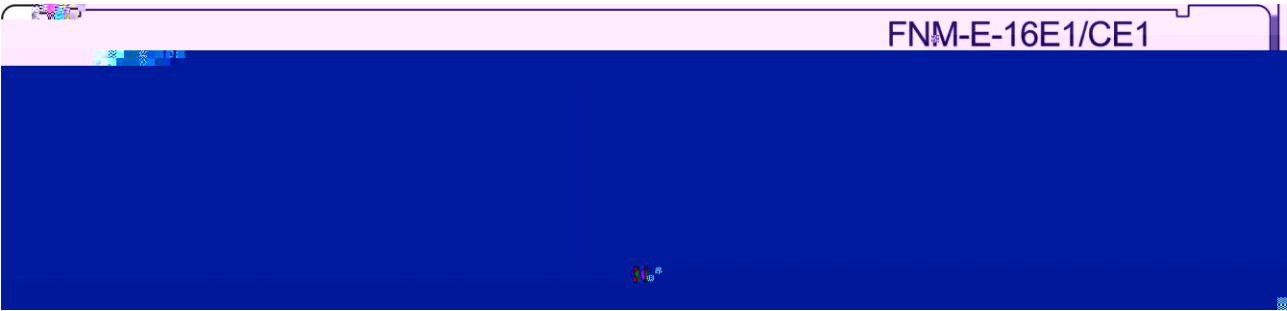
SFP	Mini-GBIC-SX	1000BASE-SX	mini GBIC	LC	
	Mini-GBIC-LX	1000BASE-LX	mini GBIC	LC	
	Mini-GBIC-LH40	1000BASE-LH	mini GBIC	LC	40km
	Mini-GBIC-ZX50	1000BASE-ZX	mini GBIC	LC	50km
	Mini-GBIC-ZX80	1000BASE-ZX	mini GBIC	LC	80km

1-27

	1000BASE-SX	850nm		
	62.5/125um		220m	
	50/125um		500m	
	1000BASE-LX	1310nm		
	62.5/125um		550m	
	50/125um		550m	
	9/125um		10Km	
	1000BASE-LH	1310nm		
	9/125um		40Km	
	1000BASE-ZX	1550nm		
	9/125um		50Km	80Km

1.6.4 16 E1/CE FNM-E-16E1/CE1

16 E1/CE1 FNM-E-16E1/CE1 RSR50E-SIP1-X RSR50E-SIP1-X
FNM-E-16E1/CE1



1-15 16 E1/CE1 FNM-E-16E1/CE1

CE1 RDY

1-33 FNM-E-16E1/CE1

RDY		

LNK/ACT	E1/CE1 0~15		
ALM	E1/CE1 0~15		

FNM-E-16E1/CE1

E1

CE1

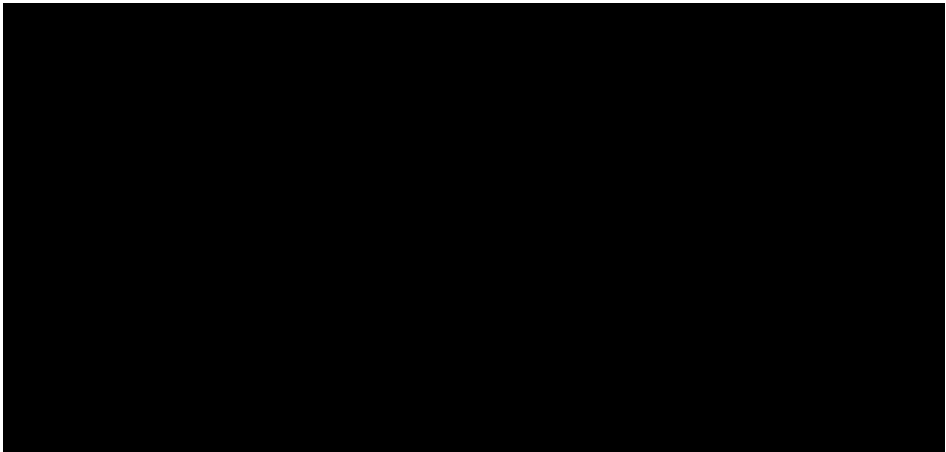
1-28 FNM-E-16E1/CE1

	FNM-E-16E1/CE1	
	2*4-RJ45	
	ITU-T G.703 G.704	
	E1 CE1	
	F1:5A/125V	
	1.5KV 1KV	
	ESD 6KV 8KV	

1-29 FNM-E-16E1/CE1 RJ45

$$\vdots$$

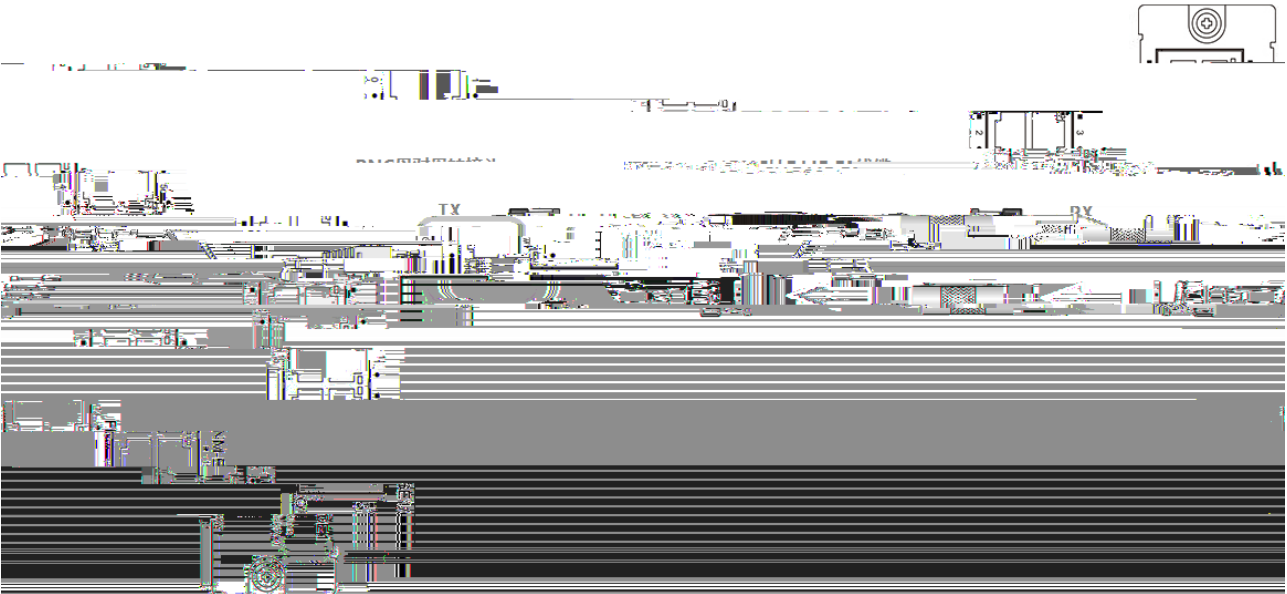
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2 RJ45 120Ω 1-29
HX-RJ-100

A TTIP/TRING/RTIP/RRING B
RTIP/RRING/TTIP/TRING;

3. BNC CAB-E1 unbalanced-2-BNC-RJ45M-75ohm-3m



75 - BNC 75Ω E1 impedance

DDR3 SDRAM	4GB
	F1 20A/125V
	16 16 10/100/1000Base-T/1000Base-X 2
	10/100/1000BASE-T-RJ45 1000BASE-SX-SFP 1000BASE-LX-SFP 1000BASE-LH-SFP 1000BASE-ZX-SFP 10GBASE-SR-SFP+ 10GBASE-LR-SFP+ 10GBASE-ER-SFP+ 10GBASE-ZR-SFP+
	IEEE 802.3
	ESD 6KV 8KV
	230W

DFNM-16GE/2XS

1-45

SFP	Mini-GBIC-GT	10/100/1000BASE-GT mini GBIC	(RJ45)
	Mini-GBIC-SX	1000BASE-SX mini GBIC	LC
	Mini-GBIC-LX	1000BASE-LX mini GBIC	LC
	Mini-GBIC-LH40	1000BASE-LH mini GBIC	

	(nm)		um	n	
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V.35DCE

V.35DTE-V.35DCE

DB26



V.35DTE-V.35DCE

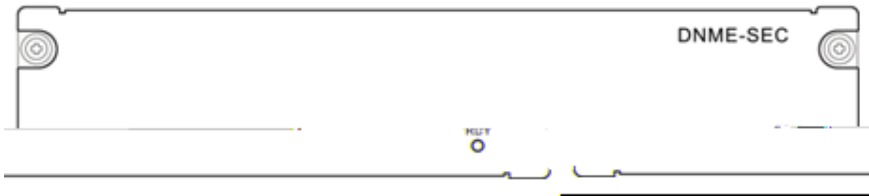
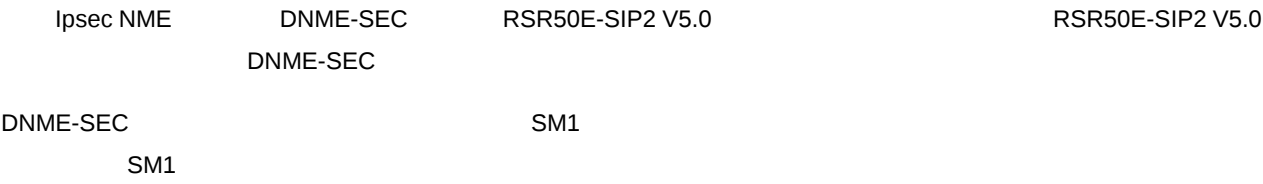
V.35

1		V.35DTE V.35DCE	V.35DTE V.35DCE	GV	V.35 Modem V.35 DTE
2)	NMX-4HSH	V.35 DTE/V.35 DCE			
3		V.35DTE-V.35DCE			
1-51		V.35			

1.6.7

Ipssec NME

DNME-SEC



RDY

RDY

1-44 DNME-SEC

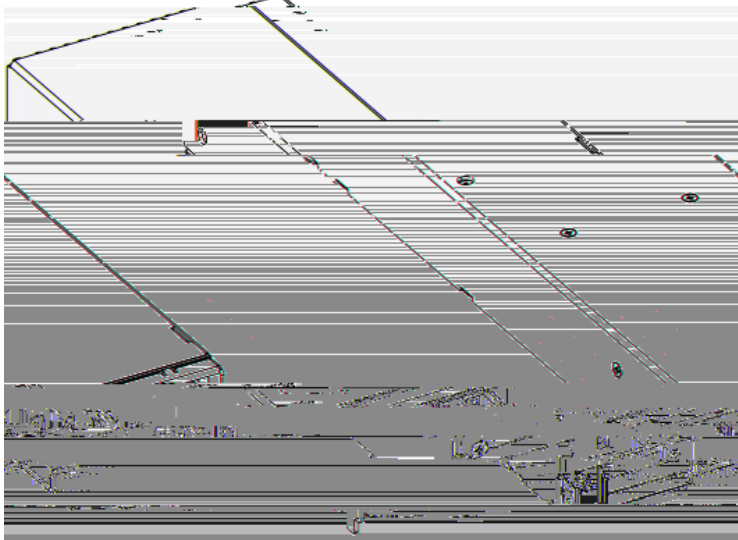
DNME-SEC		
	SM1	
	ESD 6KV	8KV
	≤ 6W	

1.7

1	2	600W	1600W	1400W
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1.7.1 RG-PA600-RI

RG-PA600I	RSR50E-80	,	12V
	10A		
RSR50E-80	2	RG-PA600-RI	1+1



1-22 RG-PA600-RI RG-PA600-RI

2 AC DC

AC

5			
6			

1-53 RG-PA600-RI

	RG-PA600-RI
	100-120V~ 200-240V~ 50/60Hz
	90-264V~ 47-63Hz
	600W

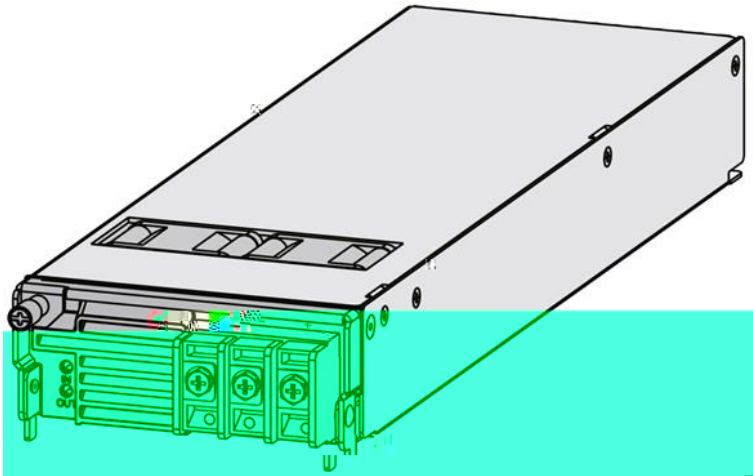
N+N

1-23 RG-PA1600-RI

RG-RSR50E-80

2 RG-PD600-RI

1+1



1-24 RG-PD600-RI

RG-PD600-RI

IN
OUT

RG-PD600-RI

1-56

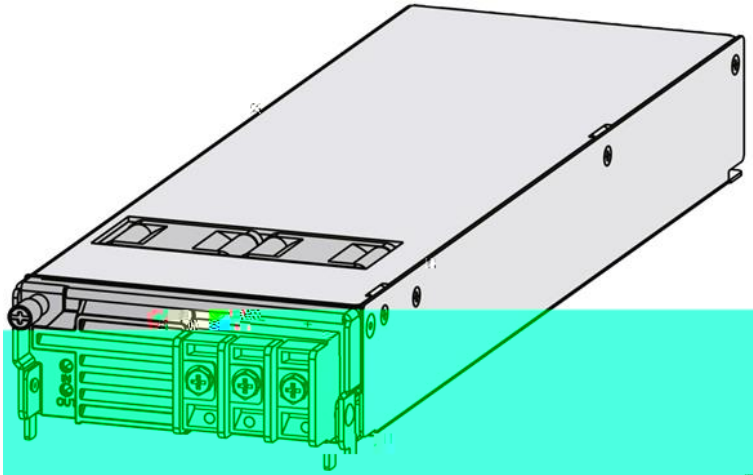
		IN	OUT
1			
2			

	0 ~ 45
	0-2000m

RG-PD600-RI

1.7.1 RG-PD1600-RI

RG-PD1600I	RG-RSR50E-80		
RG-RSR50E-80	2	RG-PD1600-RI	1+1



1-25 RG-PD1600-RI RG-PD1600-RI

IN RG-PD1600-RI

OUT

1-58

		IN	OUT
1			
2			
3			
4			
5			
6			

1.9.2

1.9.3

-
-

1.9.4

-
-

1.9.5

- DEBUG
-
- SNMP (Star View CiscoWorks HP OpenView)
- Console

- VLAN

1.9.7

- X-MODEM (Windows XP Windows NT UNIX DOS)
Console
- TFTP
- BOOTROM

2

2.1



2.1.1

-
-
-

UPS

2.1.2

RG-RSR50E-80

-
-
-

-

2.1.3

- -
 -
 -
 -
-

2.1.4

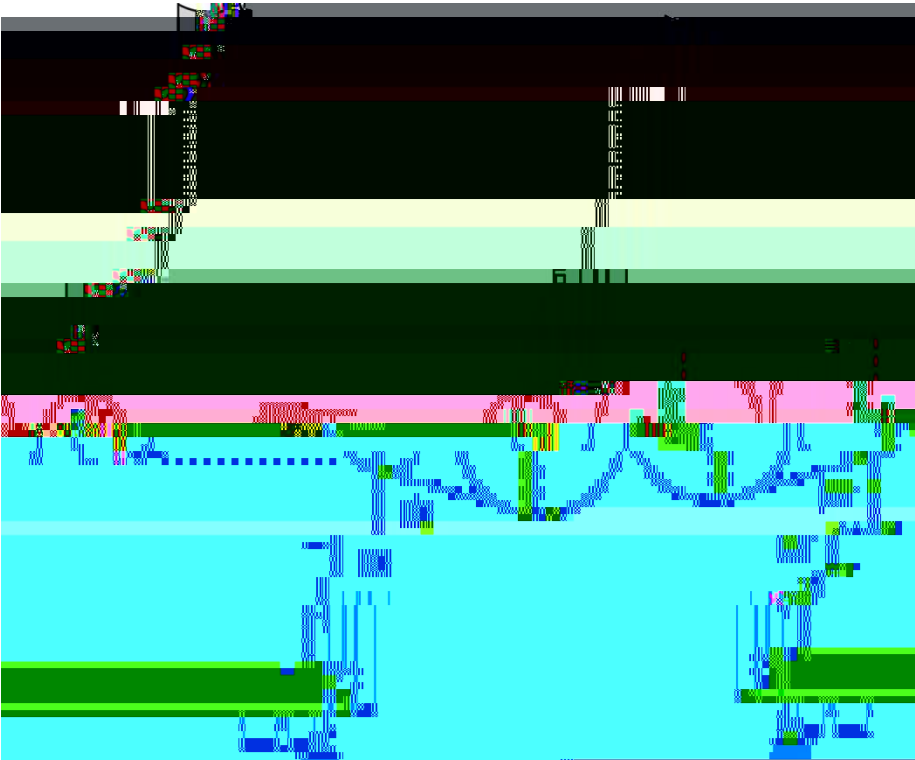
RG-RSR50E-80

RG-RSR50E-80

-
-
-
-
-
-
-

RG-RSR50E-80

1)



- 3

180mm25mm155mm
- 4
- 5
- 6

50%

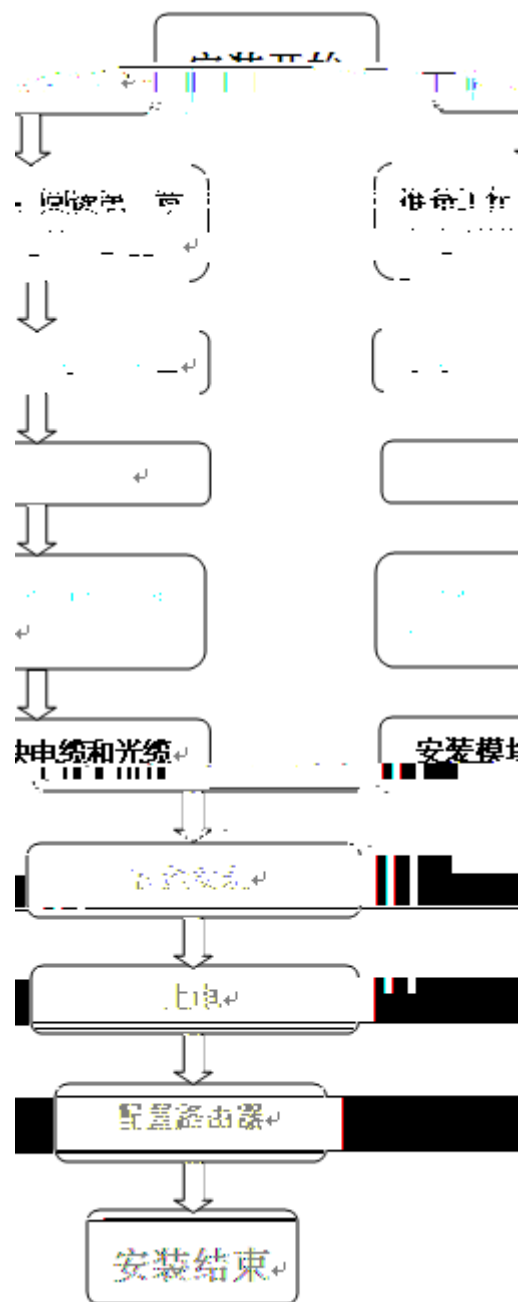
2.4

	HUBCSU/DSUDCEPC



2.5

2.6

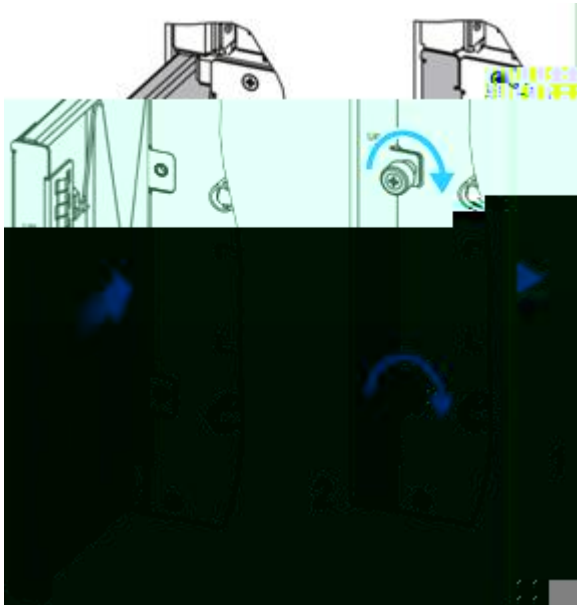


3.2

- 2 —

3.2.1

RG-RSR50E-80	19
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3.4



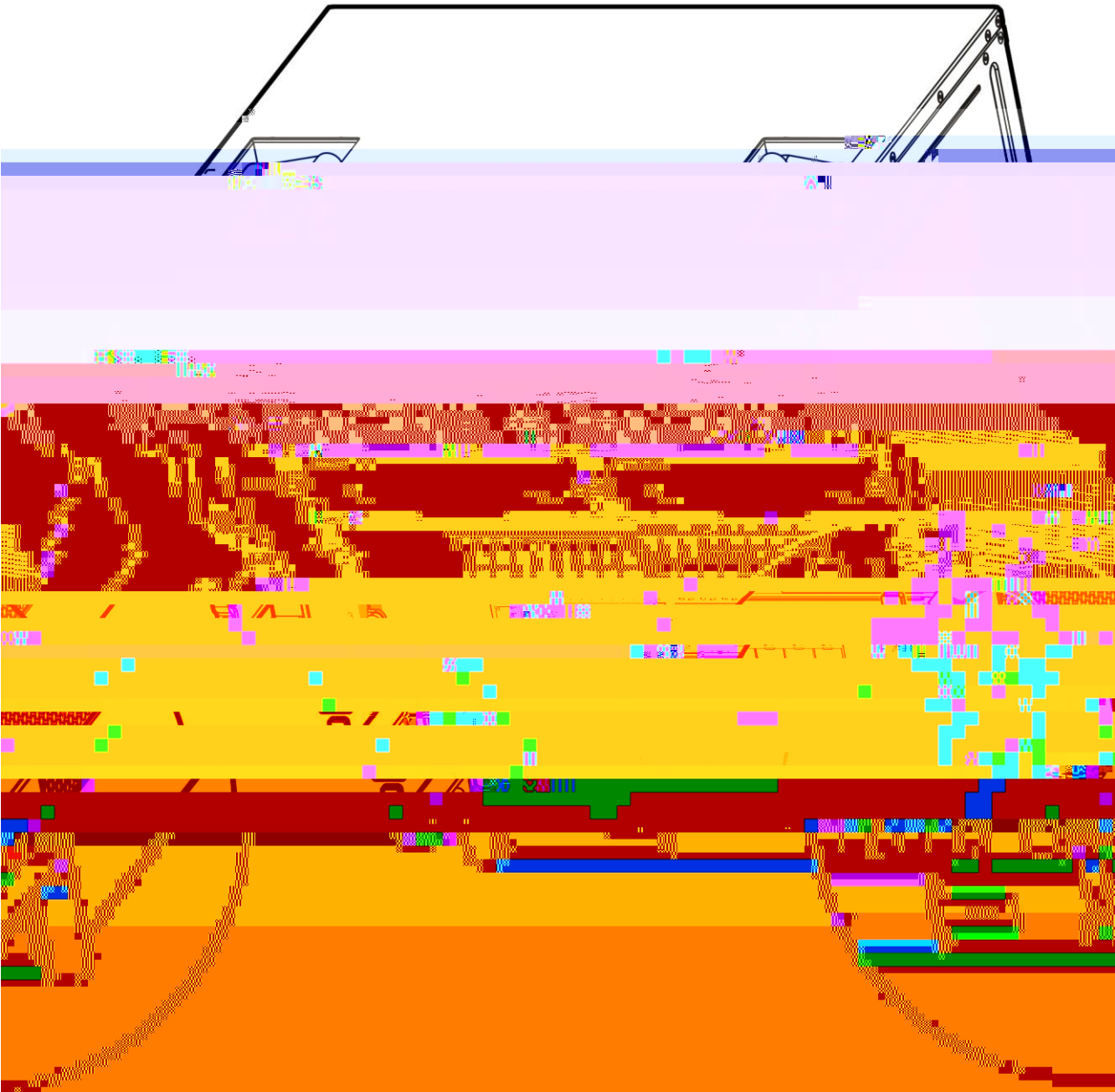
RSR50E-80

1

1 ;

2

3



1	OFL	OFL	5s	OFL
2				
3				

3.7



3.7.1

“ M1 M2 F1 F2 ”

RSR50E-SIP2 FNM-8GE
SIP2 ,

NME/DNME

3.7.2

1

2

3

4 RSR50E-SIP2 FNM-8GE

5 CPU

3.7.3

-
-
- EXEC

3.8

- -
-

3.9

3.9.1

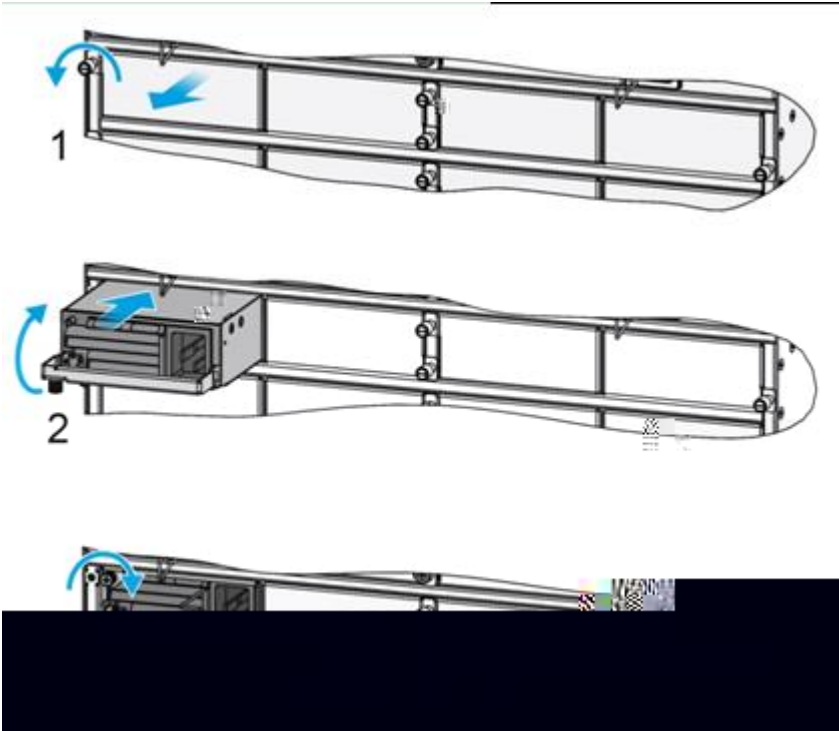
RG-PD1600-RI

RSR50E-80

RG-PA600-RI

RG-PA1600-RI

RG-PD600-RI



RG-PA1600-RI

3.9.2

3.10.2

RSR50E-50

-40 — -75V 

RSR50E-80	RG-PD600-RI	RG-PD1600-RI	1	+	1	—
1		RG-PD600-RI RG-PD1600-RI				

+

-
-
-
-
-

3.12

RSR50E-80

EIA/TIA-232

Console

7-1 Console

	RJ-45
	EIA/TIA-232
	300-115200bps9600bps
	1 2 3

4

4.1

4.1.1

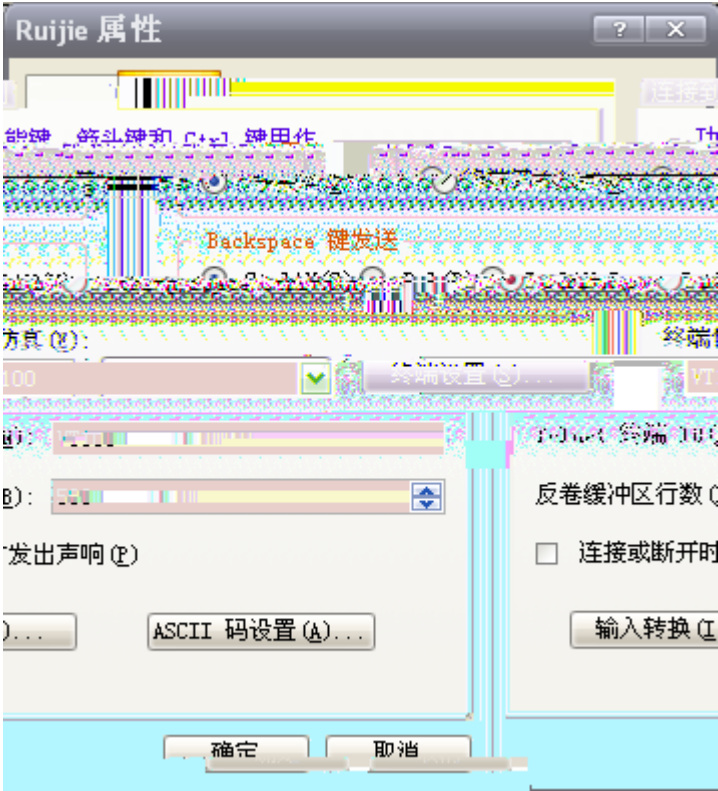
Console				RS232		Console	
Console							
	RSR50E-80	Console	AUX	RSR50E-RCM80			
				Windows		Hyperterm(	
)						Console	
		9600	8	1	VT100		
Windows							





Console





4.1.2

4.1.2.1

4.1.2.2

“ ”

4.2

5

5.1

RSR50E-80

Power

- ☐ ☐ ☐ ☐

power

5.2

6

6.1

