



® 4

Ä V1.24Ä

RG-NPE 3G

5A7





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+X@Ä Ä EÄ4× CtÉy 1yÄ

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E8Ö,1M0;E91ÈÄ& È Ä

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ñ È ¼	14 41E
ñ ¼	105Ä 105

X@S

RG-NPExxx 3+G510 j@S

NPExxx 3+G5Ä

B4(B5ZjLtv,y-j69iEJ.

Apa'e"D)Ä

456F0Lu65547,CJē

Fpž

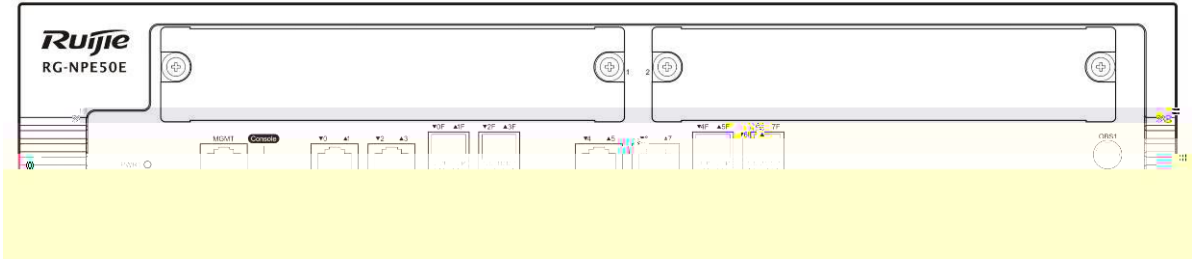
Ä

1 1y

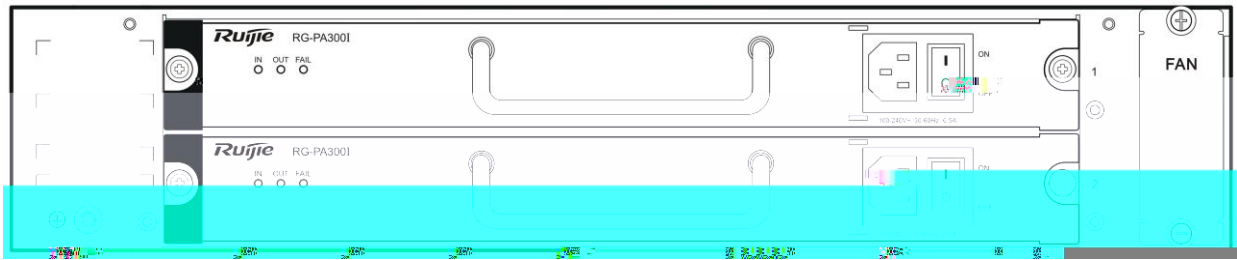


1.1.2 1.1.2.1 NPE50E 5E

1.1.2.1 NPE50E 5E



1-3 NPE50E 5E



1-4 NPE50E 5E

1.1.2.2 NPE50E 5E

NPE50E ,G5Z

N	
	DDR2 SdramÖ 4GB
	NorFlashÖ 8MB
	NandFlash Ö 512MB

I/O A5Z

svZ5Ö

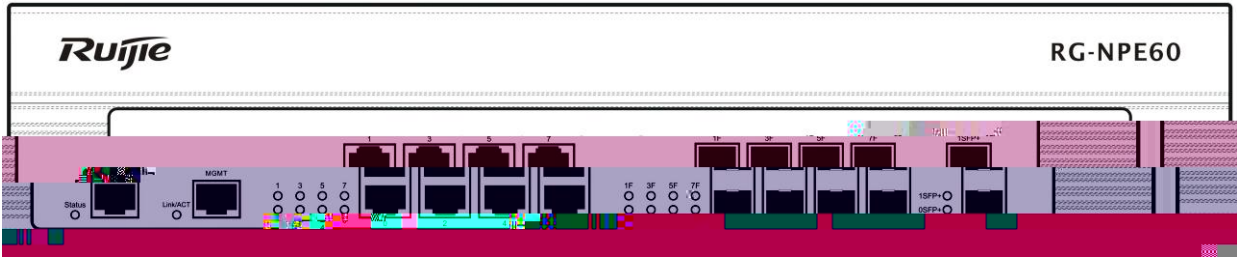
1 8)y+e#X171wFp WAN/LAN 7È
1 0/1Ã 0/3Ã 0/5Ã 0/7 UAÏ WAN È 0/0Ã 0/2Ã
0

BYPASS	1 0/0-0/1, 0/2-0/3 T Ä 1000 BYPASS BYPASS y BYPASSÖ 100 BYPASS
0	1 2 Z RG-PA300I
'	N
Ö	Ö 10Base-T/100Base-TX/1000Base-TX, 1000BASE-SX/LX/ZX

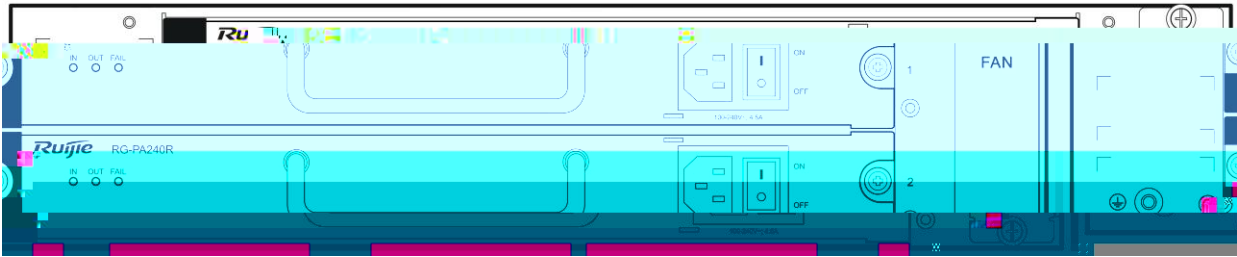
		1000M
SD		1000M
USB		1000M
1000M Link 7		link 88
1000M ACT 7		9000M
0-7		1000M 1000M / 1000M 1000M
0F-7F sy7		link 68
OBS0,OBS1 y		1000M
BYPASS 7		1000M

1.1.3 1.1.3.1 NPE60 5E

1.1.3.1 1.1.3.1.1 NPE60 5E



1-5 1000M SFP NPE60 5E



1-6 1000M SFP NPE60 5E

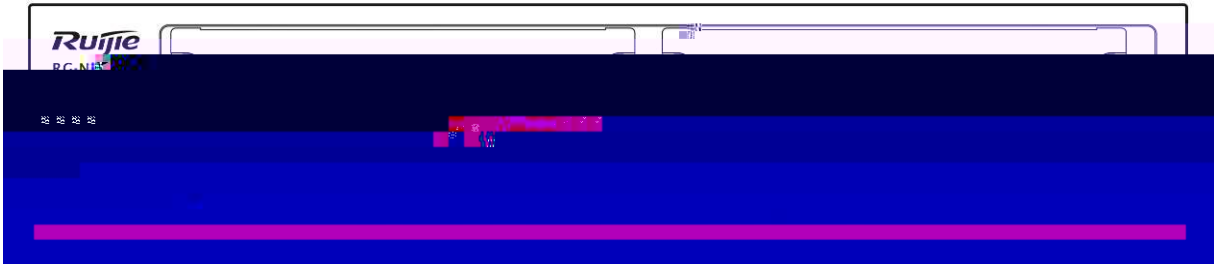
1.1.3.2 1.1.3.2.1 NPE60 5E

1.1.3.2.1 NPE60 5E

N	F
0	DDR2 SDRAM 2GB
	BOOTROM 2MB
	FLASH 512MB

1.1.4 ⑤ NPE60E 5L

1.1.4.1 ⑤ NPE60E 5L ⑤



. 1-7

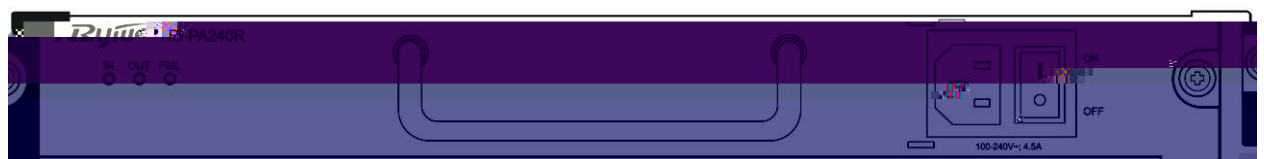
	SD 1 P
BYPASS	BYPASSÖ 1 0/0-0/1, 0/2-0/3 1/20] 80 BYPASS BYPASS y BYPASSÖ 10/ BYPASS
0	1 2 Z RG-PA300I
'	N
Ö	Ö 10Base-T/100Base-TX/1000Base-TX, 1000BASE-SX/LX/ZX 10G BASE-SX/LX Ä RS-232
h (W h Hh D)	440mmh 88.1mmh 420mm
	100-240V~;50-60Hz
j	100W

FAN	53¢ 6R ID 4816R
SD	53¢ 6R
USB	53¢ 6R
161 Link 7R	link 88¢
161 ACT 7R	98R
0-7 7R	53¢ ® / 6 8¢ R
0F-7F sy7 R	link 53¢ R
OBS0,OBS1 y BYPASS 7R	53¢ R
0SFP+ 1SFP+ 7 7R	580v Link 580v ACT 60N Link

1.2 0R

1.2.1 RG-PA240R 0R

1.2.1.1 0R



1-9 RG-PA240R +eR

7/jB\$	(R
IN	Eñ 5/8¢ hP Eñh Ö R
OUT	Eñ 5/8¢ hP EñhÖ R &
FAIL	+eñCE Ö R +eñh Ö 48¢P

1.2.1.2 R V

ò	V
EñE	100-240V~; 50-60Hz; 4.5A

1.3.1

 NPE 3+G5E F2+X0J,55)A1Ö
 54i RJ45 5Z5AÄ ARP Aþ
 55r:1 TCP/IP A27Ä IPÄ ICMPÄ IGMPÄ TCP ¼ UDPÄyAþ
 1J/y IP :,D+aAÖ RIP(V1/V2)È OSPF 1y
 15516Aþ SNMP
 1 TELNET
 1 DHCP 1y
 1 PPPoE
 128EÄþ X-MODEM w4×8
 1 NAT
 11þD+a
 1 VRRP
 1 L2TPÈ PPTP Aþ
 1 TFTP

1.3.2

55M55B4X4Ä
 7X74G-9B4(B57;ul6yÄ
 8 web +M7þ CLI G5žME-7X@E5ÖwÄ

1.3.3

7B3BDDZÈ DEBUG 76f/5uLÄ
 5A(M7/j7-EXg)55,W7-F180-1Ä
 1J/41,65Ö
 FJE÷Console F85ž
 FJE÷TELNET ,65ž
 FJE÷TFTP 8} 5ž

1.3.4

G+X14b6 IP 5E%E55pÄFA2wFpÄ
 PPP AþÄ PAP ¼ CHAP AÄ
 1 MAC p5E-Ä
 55þ6+B° NAT

1.3.5 𐄂

G+X⑩8k.D,ā DPI EĖOāA5 P2P AXÃ IMSSK
 1J551yXĭkĭ 600 J/Ā
 5•56yĖLēX 2465FĖXĖFXāy(ā
 7A1Xg,69E /-,' IP pĖÃ
 ĀXAĀ Session 6yW1yB4Ā
 1%XgĀ IP pĀ IP pĖX1yj6Lkĭ
 AĖ-BCHvĭfĀ Session Gy f1yĀ
 14B'G5F+Xg4Ā IP 4ĀĀ P2P AĖ2B2*
 ,ĀXĀ(4× [+XgFv16L+;× fĀ

1.3.6 𐄂÷ %ĀĀ

5•56yĖLēX 2465FĖXĖFXāy(ā
 7A1Xg,69E /-,' IP pĖÃ
 ĀXAĀ Session 6yW1yB4Ā
 1%XgĀ I PĀ URL 6 , 6 URL vLk
 𐄂
 1%XgĀ I PĀ URL 6 , 6 URL v
 𐄂

1.3.7 𐄂

12REĀ X-MODEM AĖ4/y 𐄂 (² Windows 95Ā Windows NTĀ
 UNIXĀ DOS 1y);FJE÷ Console ;Eāv4× (xĀ
 1FJE÷ TFTP AĖEĖXĀ
 1 BOOTROM X4w4× Ā
 1804× FJE÷ web Fv4×

1.3.8 A7 EĖe 𐄂 𐄂

1Q+a 𐄂 QJ/G5Ė6%Ca/yG5vÖ 1Ā
 60A7G5pĖy fĀ 6y ĀN 2Ė65
 6LĖ5W7-×+O+Ā.
 pĖe BYPASSĖA7+e6y2hĖEpe Ý Ā

2 5£

2.1 ■©

5£ 5P1057-E

X 5£ ,5XE0;7AP

z B=± A7 n5X9"d,1P A7 Ä

B6 A7 n5XF/Ä

z B'ÄÖ A7 ,hÖ

B+XgX560;kÖ

2.2.1 Ө Ө

Ан А7 Ө50
Ө5680V
550V
G561EӨ
Ө 63 2 Ө01
А7 Ө
Ө

\$Ö		-()Ö	
Ө	.Ö	Ө	.Ö
15 ~30	0 ~45	40%~65%	10%~90%

2.2.2 Ө

Ө А7 Ө
А7/Ө

А7 Ө

2.2.3

5E XA5E
5E

A7 F

Qe4M+e1yF+|ej))
B 51yG3+5Ä

ÉbM%e,íd

A78

ObH

1F2,8

)XgöE+eDEEÖ

@ A7 +eDAlbM%e70LbM%eE

6p+eDMM:n5XQ%e,CEn+e.ñjÄ

EE0+ö 5E +eD8+X@+eD,FE5HFFX{6+eD⁻
:,sÄ

2.2.4

6E4E

)Ee3+5G9x,Lb+e5

SGz

5E E

Ö

10

LbM%e7...

FÖ565Ö

+eÄ

G5Äi

Z5Äi

Ä

-(Ä75Ö

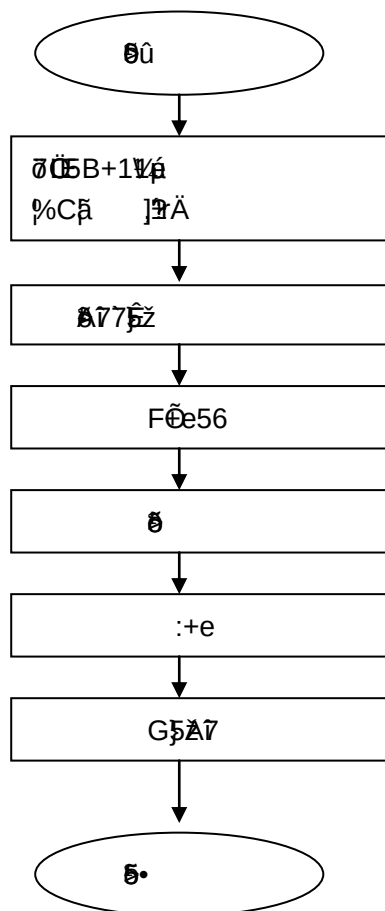
HUB

3 5£ 5

3.1 5£ 6;

REF 505

5E 000F



3.2 Ê 5£ 5Ž

5 A7 752 Ê A7Ä 8672
 5A 5E 5085
 5
 5CE

5£ £

3.2.1 §

5G 5E 5A

5£

3.5

EIA/TIA-232 2b93,G5ž ConsoleEJEfZ
Xg@) 5£ ,G5AE÷ WEB 8 5£ F55E IM02
Föf Ä

× f F ~~V~~ Ö

ò	B\$
õ	RJ-45
õö	2+ EIA/TIA-232
ö	1 9600bpsÄÄÄ 57600bpsÈ 115200bps
1ñ	1.õ 2.1V41-(F 3.0Z2õõõ

0E, P 00 5E x f 0
 +XLj,TVG5401F` A7 ,x f 01F0) A7 F 54
 , DB-9 de Ä

3.6

5E  A7 

9 A7  j:Bp A7 ,@JN(*9XCHð

\$+9C0,0L0Z0cÄ

ðeäpðeä A7 3+eä08ä

ð A7 ,4VFä

ð A7 65411yA7,Fð+V!ä

4 _ 05ž 5£

4.1 Ø 5£

4.1.1 65ß

X 5£ 10 05ž÷
05ž

Console 0 5£ F05ž

10 05ž/j01V40F65ßbFJE7ø

RS232 456 ¼ 5£ ,

Console 05ž×fMÄ

F0

FJE÷Console 05ž

10 05ž, FJA05ž+XJE05ž/-O0;£

Windows

05ž Hyperterm(C4×40)1yC4×40j05ž;Ä>

C4×40E05ž0¼

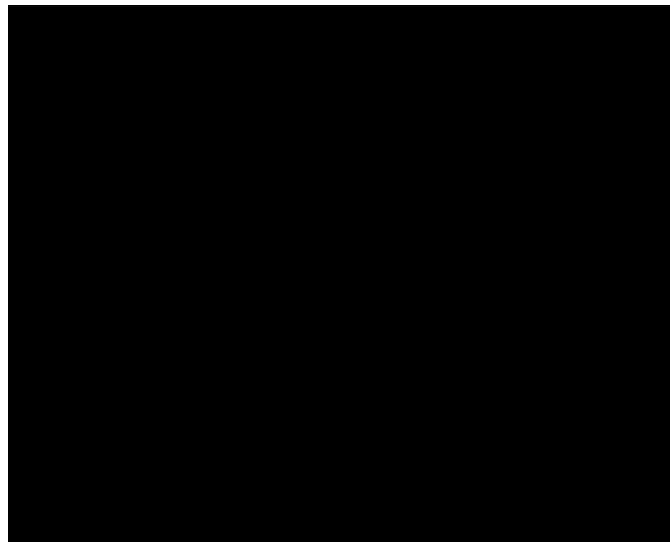
5£ , Console F05žJA0

9600

05ž 8 Ä 1 05žF940/-O2ß

VT100£

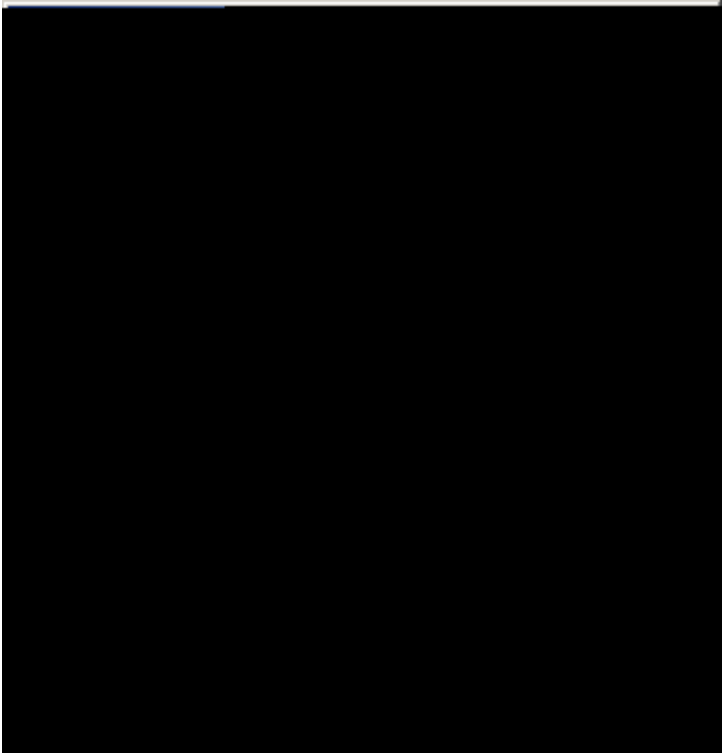
., Windows ,C4×40,A5žMÄ



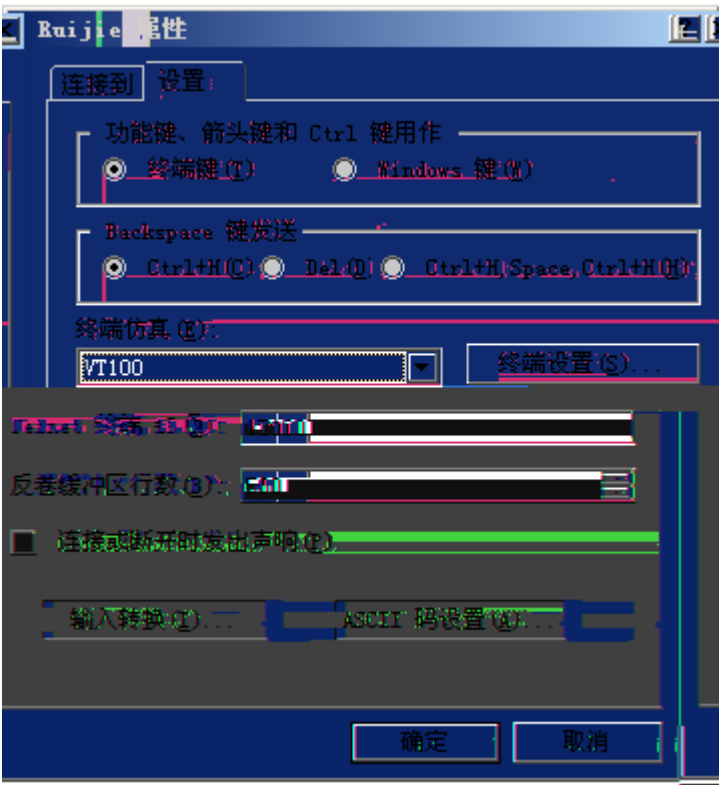
05ž



F9¼ 5£ , Console F0



A50,FJA0



F940/-O2*

5E FþeÄ

4.1.2 5E e

4.1.2.1 þ

þ 5E þ

+eæFÜZ

Ëe+e» 5E ,þV08\$
Gþ456FÜGþþXþF40V"40A5¼

4.1.2.2 5E e

þ 5E Ëe+eæ
þ 5E +eæ 5E +eæ¼ ONþž

4.1.2.3

```

5E      e      0
      FJNp+5Vh
0      :+eANpEoANEX      5E      ,FJNptFBO0
0°D,0      Ä
      5E      M,7/jw/jvh
0      B63101×0JA7/jB08²      Ä
      G540Vn/jh
0      5E      :+e40Jn/j      5E      E&@1yX

```

4.1.3

```

5E      100      2k ? 8@ 0

```

```

*****

```

```

Syst em boot st rap . . .

```

```

Boot Ver si on: RGOS 10. 3( 4b7) , Rel ease( 78528)

```

```

Nor Fl ash I D: 0x00010049, SI ZE: 2097152Byt es

```

```

MTD_DRI VER- 5- MTD_NAND_FOUND: 1 NAND chi ps( chi p si ze : 536870912) det ect ed

```

```

Press C tr l +C to enter Boot Menu . . . . .

```

```

Mai n Program Fi le Name rgos. bi n, Load Mai n Program . . .

```

```

Executi ng program l aunch at: 0x00010000

```

```

Rui jie General Operati ng System Soft ware

```

```

Rel ease Soft ware ( t m) , RGOS 10. 3( 4b7) , Rel ease( 78528) , Compil ed Thu Mar 4 19: 35: 43
CST 2010 by ngcf 35

```

```

Copyri ght ( c) 1998- 2010s by Rui jie Net works.

```

```

Al l Ri ght s Reserved.

```

```

Decompil ing or Reverse Engi neeri ng i s Not Al lowed.

```

```

*Jan 1 00: 00: 29: %MTD_DRI VER- 5- MTD_NAND_FOUND: 1 NAND chi ps( chi p si ze : 536870912)
det ect ed

```

```

*Jan 1 00: 00: 48: %LI NK- 3- UPDOWN: I nt er face Gi gabi t Et her net 0/ 2, changed st at e to
up.

```

```

*Jan 1 00: 00: 48: %LI NEPROTO- 5- UPDOWN: Li ne prot ocol on I nt er face Gi gabi t Et her net
0/ 2, changed st at e to up.

```

```

*Jan 1 00: 00: 49: %LI NK- 3- UPDOWN: I nt er face Gi gabi t Et her net 0/ 3, changed st at e to
up.

```

```

*Jan 1 00: 00: 49: %LI NEPROTO- 5- UPDOWN: Li ne prot ocol on I nt er face Gi gabi t Et her net
0/ 3, changed st at e to up.

```

*Jan 1 00:00:50: %LINK-3-UPDOWN: Interface GigabitEthernet 0/1, changed state to up.

*Jan 1 00:00:50: %LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet 0/1, changed state to up.

*Jan 1 00:00:51: %LINK-3-UPDOWN: Interface GigabitEthernet 0/0, changed state to up.

*Jan 1 00:00:51: %LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet 0/0, changed state to up.

*Jan 1 00:01:00: %SYS-5-COLDSTART: System coldstart.

Ruijie>

Ä: Oj_03-05-EE(x)' *5• £ Oj_09pÄ Å
 Ø 5£ 5A

4.2 Ø 5£

£ 5£ 50P 5£ 55£ 5£ 550ö
 03-65703 Ä

