

SATA
POWER



XXXXXXXXXXXXXXXXXXXX



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1

RG-ACE

RG-ACE

1.1 RG-ACE2000E V2.X

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|---|-----|-----------------------------|--------------|-----|-----|-----|-----------------------|-----|--------|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|--|--|---|---------|--|--|--|--|--|--|--|--|--|--------------|--|--|--|--|--|--|--|--|--|-----------------------------|--|--|--|--|-----------------------|--|
| | RG-ACE2000E V2.X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | DDR3 SDRAM 4GB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | BOOTROM 8MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | FLASH 512MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | SATA 500G | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| I/O | <table border="0" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%; text-align: center;">8</td> <td style="width: 10%;"></td> <td style="width: 10%; text-align: center;">4</td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%; text-align: right;">0/MGMT</td> </tr> <tr> <td>0/1</td> <td>0/2</td> <td>0/3</td> <td>LAN</td> <td>0/4</td> <td>0/5</td> <td>0/6</td> <td>0/7</td> <td>WAN</td> <td style="text-align: right;">4</td> </tr> <tr> <td></td> <td></td> <td style="text-align: center;">7</td> <td colspan="2" style="text-align: center;">WAN/LAN</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td colspan="2" style="text-align: center;">10/100/1000M</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td colspan="2" style="text-align: center;">1000BASE-SX/LX/ZX mini GBIC</td> <td></td> <td></td> <td></td> <td style="text-align: right;">GE-SFP-LX20/LH40-BIDI</td> <td></td> </tr> </table> | | | | 8 | | 4 | | | | 0/MGMT | 0/1 | 0/2 | 0/3 | LAN | 0/4 | 0/5 | 0/6 | 0/7 | WAN | 4 | | | 7 | WAN/LAN | | | | | | | | | | 10/100/1000M | | | | | | | | | | 1000BASE-SX/LX/ZX mini GBIC | | | | | GE-SFP-LX20/LH40-BIDI | |
| | | | | 8 | | 4 | | | | 0/MGMT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0/1 | 0/2 | 0/3 | LAN | 0/4 | 0/5 | 0/6 | 0/7 | WAN | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 7 | WAN/LAN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | 10/100/1000M | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 1000BASE-SX/LX/ZX mini GBIC | | | | | GE-SFP-LX20/LH40-BIDI | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 0/MGMT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

BYPASS

RG-ACE2000E V2.X

ACE

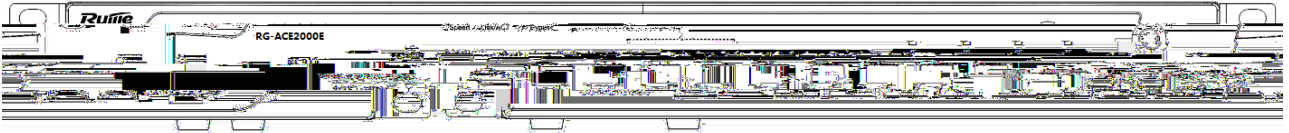
BYPASS
ACE BYPASS

ACE

BYPASS

VLAN

1-1 RG-ACE2000E V2.X



1-2 RG-ACE2000E V2.X

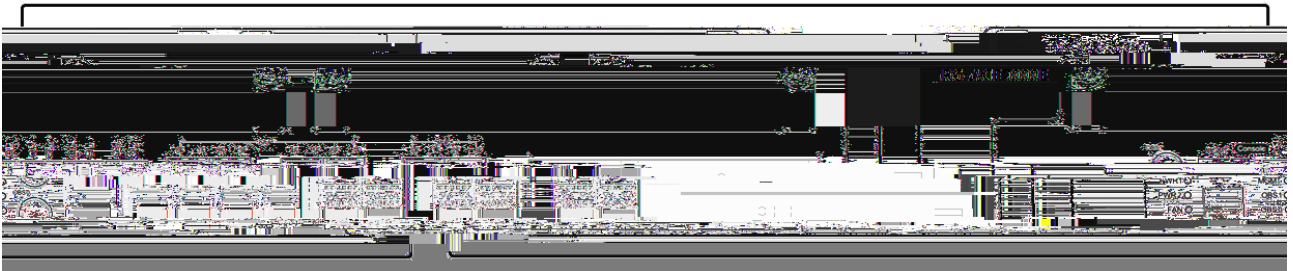


| | | |
|-----------|----------|-------------|
| | | |
| PWR0 | | 0 0 0 |
| PWR1 | | 1 1 1 |
| SYS | | |
| SATA0 | | 0 0 |
| SATA1 | | 1 1 |
| 0/0-0/7 | link/ACT | / / Link |
| 0/0-0/7 | speed | / |
| 4F-7F | | link |
| OBS0,OBS1 | BYPASS | |

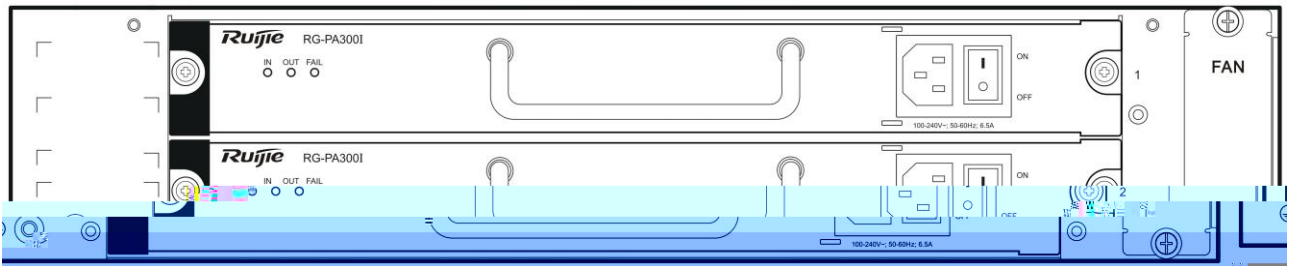
1.2 RG-ACE2000E V3.X

| | | | | | | | | | | | |
|--------|------------------|-----------|-----------------------------|---------|---------------|-----------------|-----|-----------------------|---------|--------|-----|
| | RG-ACE2000E V3.X | | | | | | | | | | |
| | DDR3 SDRAM 16GB | | | | | | | | | | |
| | BOOTROM 8MB | | | | | | | | | | |
| | FLASH 512MB | | | | | | | | | | |
| | SATA 500G | | | | | | | | | | |
| I/O | | | 8 | | | | | | WAN/LAN | 0/1 | 0/3 |
| | 0/5 | 0/7 | WAN | 0/0 | 0/2 | 0/4 | 0/6 | LAN | | | |
| | | | 10/100/1000M | | | | | | | | |
| | | | 1000BASE-SX/LX/ZX mini GBIC | | | | | GE-SFP-LX20/LH40-BIDI | | | |
| | | | 4 | | | 2 | | 0/0, 0/1, 0/2, 0/3 | | | 3 |
| | | | 0/4, 0/5, 0/6, 0/7 | | | XG-SFP-SR-MM850 | | XG-SFP-LR-SM1310 | | | |
| | | | XG-SFP-ER-SM1550 | | | | | | | | |
| | | 1 | | | 10/100M/1000M | | | | | | |
| | | 1 | | | | | | | | | |
| | USB | | 2 | | | | | | | | |
| BYPASS | | | BYPASS | 0/0-0/1 | 0/2-0/3 | | | | | BYPASS | |
| | | | BYPASS | | | | | | | | |
| | | | BYPASS | | | | | | | | |
| | 2 | RG-PA300I | | | 2 | | | | | | |
| | | 2 | | | 1 | | | SATA | | | |

1-3 RG-ACE2000E V3.X



1-4 RG-ACE2000E V3.X



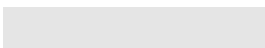
| | |
|------------------|----------------|
| PWR1 PWR2 | |
| SYS | |
| FAN | |
| SATA | |
| Link | link |
| ACT | |
| 0-7 | LINK / LINK |
| 0F-7F | link |
| OBS0 OBS1 BYPASS | |

1.3 RG-ACE3000E

| | |
|--------|--|
| | RG-ACE3000E |
| | DDR3 SDRAM 16GB |
| | BOOTROM 8MB |
| | FLASH 512MB |
| | SATA 500G |
| I/O | <p>8 WAN/LAN 0/1 0/3</p> <p>0/5 0/7 WAN 0/0 0/2 0/4 0/6 LAN</p> <p>10/100/1000M</p> <p>1000BASE-SX/LX/ZX mini GBIC GE-SFP-LX20/LH40-BIDI</p> <p>4 2 0/0, 0/1, 0/2, 0/3 3</p> <p>0/4, 0/5, 0/6, 0/7 XG-SFP-SR-MM850 XG-SFP-LR-SM1310</p> <p>XG-SFP-ER-SM1550</p> <p>1 10/100M/1000M</p> <p>1</p> <p>USB 2</p> |
| BYPASS | <p>BYPASS 0/0-0/1 0/2-0/3 BYPASS</p> <p>BYPASS</p> <p>BYPASS</p> |
| | 2 RG-PA300I 2 |
| | 2 1 SATA |
| | |
| | 10Base-T/100Base-TX/1000Base-TX 1000BASE-SX/LX/ZX |

1-5 RG-ACE3000E

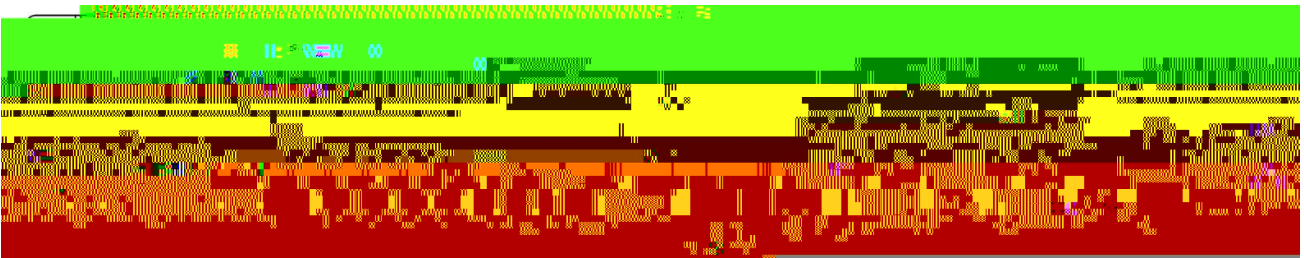
1.4 RG-ACE5000E



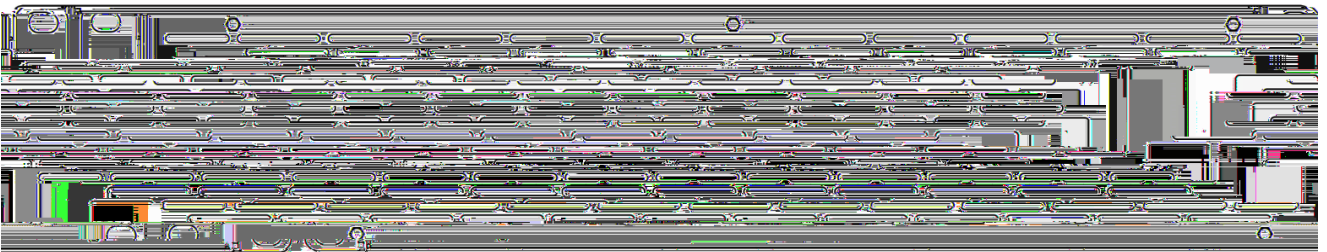
BYPASS

EXT3

1-7 RG-ACE5000E



1-8 RG-ACE5000E



Δf33β1R,R326EεBD2#6BQNV\$

| | |
|-----|----------|
| PWR | AC 0.5Hz |
| | 1Hz |
| | 0.5Hz |

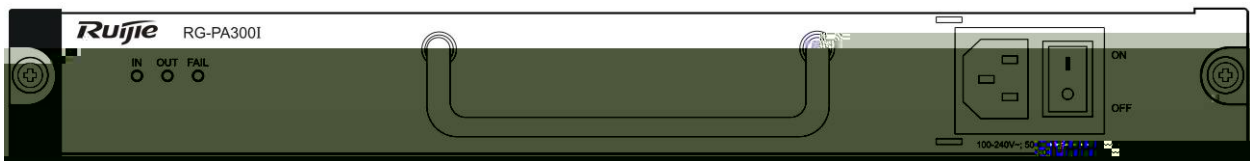
SYS

| | |
|-----------------------|------|
| | / |
| 0-7 0-7 0-1 40G | link |
| OBS BYPASS | |

1.5

1.5.1 RG-PA300I

1-9 RG-PA300I



RG-PA300I

RG-ACE2000E V3.X

RG-ACE3000E

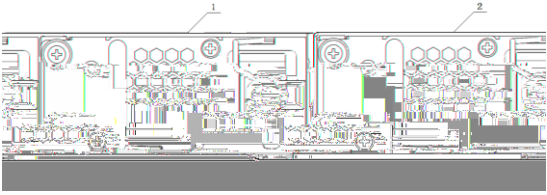
| | |
|------|--|
| | |
| IN | |
| OUT | |
| FAIL | |

| | |
|--|--|
| | |
| | |

1.5.2 RG-M5000E-AC60

1-10 RG-M5000E-AC60

(2)

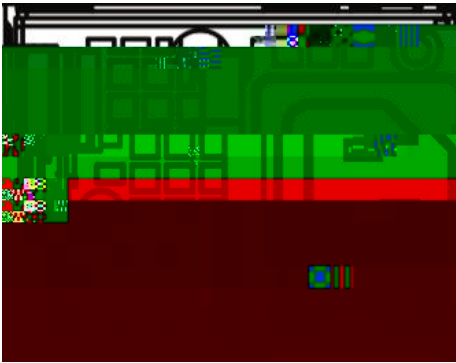


RG-M5000E-AC60

RG-ACE2000E V2.X

| | |
|--|----|
| | |
| | AC |





RG- YM-2301EDR

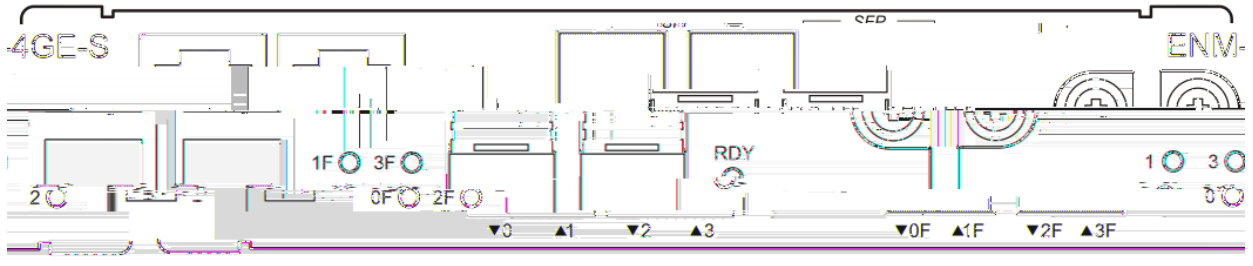
RG-ACE5000E

| PWR | AC 0.5Hz 1Hz 0.5Hz |
|-----|--------------------------|

| | 100-240V~ 50-60Hz 5~3A |
|-----|------------------------|
| | 12V 24A 5Vsb 3A |
| | 300W |
| N+1 | |
| | |
| | |

1.5.4 ENM-4GE-S

1-12 ENM-4GE-S



ENM-4GE-S

RG-ACE2000E V3.X

RG-ACE3000E

2

2.1

UPS

2.2.1 /

" "

| | | | |
|--------|-------|---------|---------|
| | | | |
| | | | |
| 15 ~30 | 0 ~45 | 40%~65% | 10%~90% |
| | | 1.5m | 0.4m |
| | 48 | 15 | |
| | | | 5 |

2.2.2

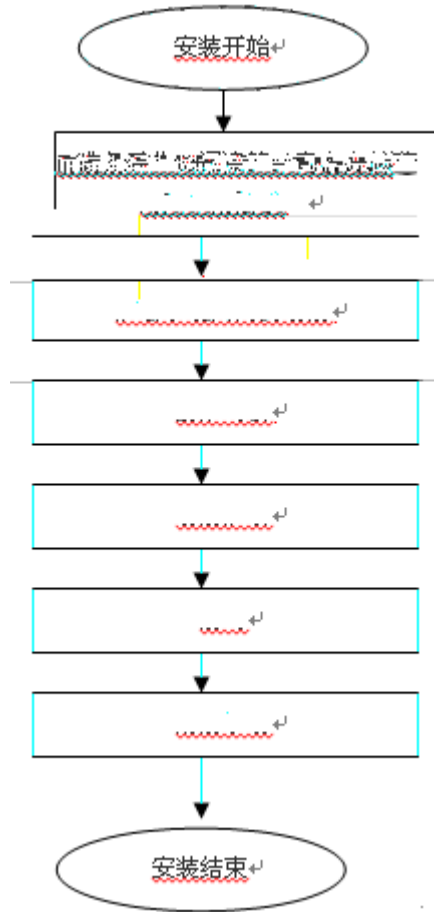
| | | | | |
|--|---------------------|-------------------|---------------------|---------------------|
| | 0.5 | 1 | 3 | 5 |
| | 1.4×10 ⁷ | 7×10 ⁵ | 2.4×10 ⁵ | 1.3×10 ⁵ |

| | | |
|--|-------------------|-------------------|
| | mg/m ³ | mg/m ³ |
| | 0.2 | 1.5 |
| | 0 | 0.03 |
| | 0.04 | 0.15 |
| | 0.05 | 0.15 |
| | 0.01 | 0.3 |

2.2.3

3

3.1



3.2

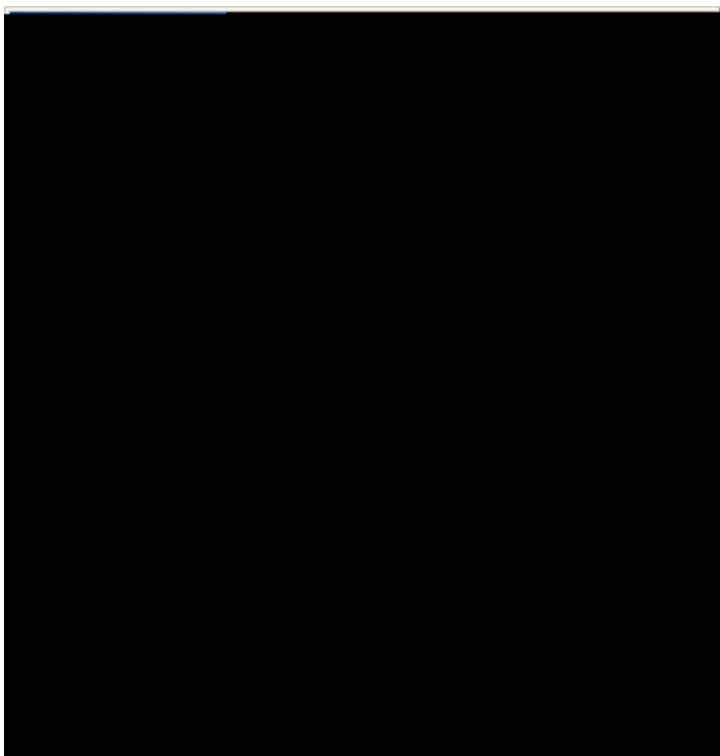
3.6

4

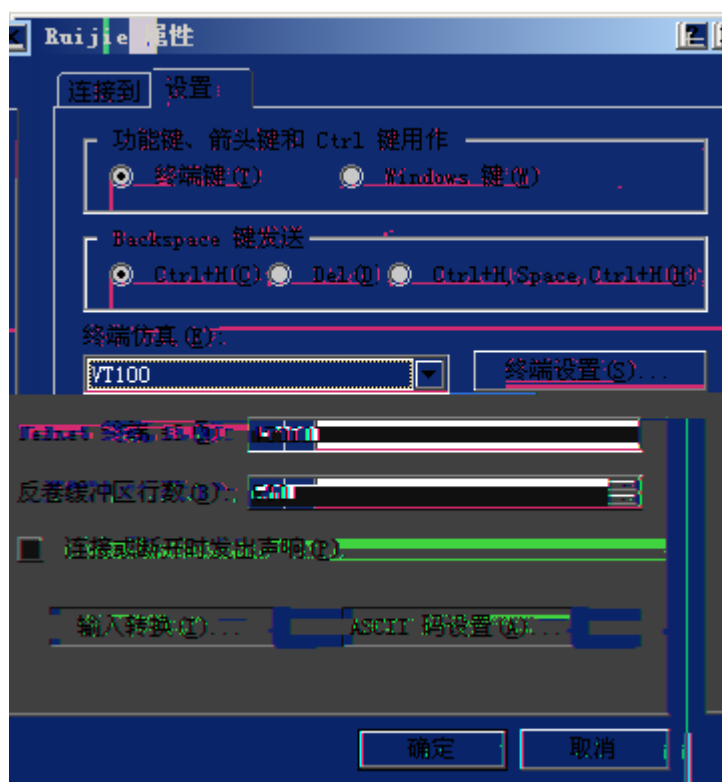
4.1 Console

Console

4-3



4-4



4.2

" ON"

" "

```
*****
Boot 1.2.17-00441-g0c1ac26 (Build time: May 20 2015 - 18:29:47)

DRAM: 16 GiB
NAND: 512 MiB
Flash: 8 MiB
SETMAC: Setmac operation was performed at 2015-05-22 16:15:00 (version: 11.0)
Press Ctrl+C to enter Boot Menu
Creating 1 MTD partitions on "nand0":
0x000000800000-0x000004000000 : "mtd=1"
UBI: attaching mtd2 to ubi0
UBI: physical eraseblock size: 131072 bytes (128 KiB)
UBI: logical eraseblock size: 129024 bytes
UBI: smallest flash I/O unit: 2048
UBI: sub-page size: 512
UBI: VID header offset: 512 (aligned 512)
```

```
UBI: data offset:          2048
UBI: attached mtd2 to ubi0
UBI: MTD device name:     "mtd=1"
UBI: MTD device size:     56 MiB
UBI: number of good PEBs:  448
UBI: number of bad PEBs:   0
UBI: max. allowed volumes: 128
UBI: wear-leveling threshold: 4096
UBI: number of internal volumes: 1
UBI: number of user volumes: 1
UBI: available PEBs:      69
```

4.3

5

5.1

RG-ACE

PWR

PWR

5.2

9600

8

1

VT100

#