



# RG-NBS5750-E



**V1.12**

**2022-01-10**

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[4001000078@ruijie.com.cn](mailto:4001000078@ruijie.com.cn)

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1.



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2.

# 1

■ RG-NBS5750-E

	10/100/1000Base-T	1000Base-X SFP	Console	SFP+	MGMT	USB	MiniUSB	
RG-NBS5750-28GT4XS-E	28	4(Combo)	1	4	1	1	1	

 1000Base-T      100Base-TX      10Base-T

 Combo      1000Base-X SFP      10/100/1000Base-T

 SFP+      10Gbase-R      1000base-X

RG-NBS5750-28GT4XS-E

■ MGMT      10/100/1000M      RJ45  
 DCMI      Data Center Manageability Interface

■ USB      Universal Serial BUS      USB

■ Console      RS-232      RJ45


■ MiniUSB      PC      F MiniUSB

 RG-NBS5750-28GT4XS-E      Console      MiniUSB  
 Console      MiniUSB

 RG-NBS5750-E      A

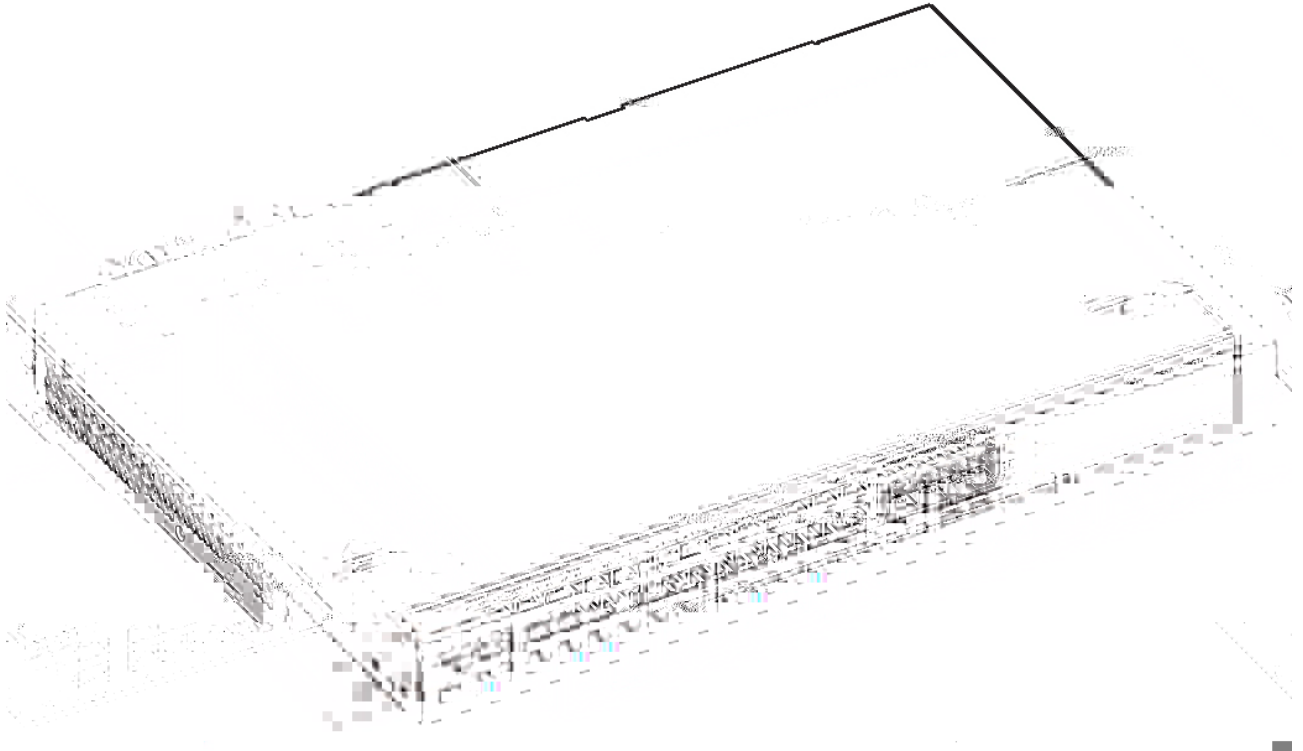
## 1.1 RG-NBS5750-28GT4XS-E

	RG-NBS5750-28GT4XS-E
CPU	1.0G
BOOTROM	8MB
Flash Memory	512MB
SDRAM	1GB

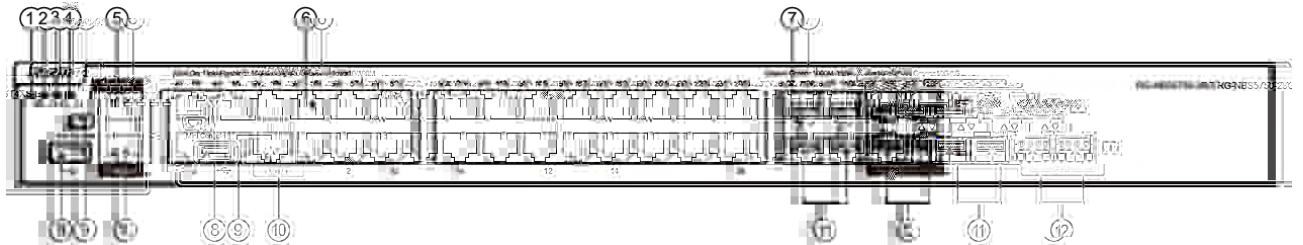
	B
	
	<ul style="list-style-type: none"> <li>■ 2</li> <li>■ RG-PA70I</li> </ul> <p style="margin-left: 40px;">AC</p> <p style="margin-left: 80px;">100-240V~ 90-264V~ 50-60Hz</p> <p style="margin-left: 80px;">2A</p> <p style="margin-left: 40px;">HVDC</p> <p style="margin-left: 80px;">240VDC 192-288VDC 2A</p>
SFP	1000Base-X 100Base-X
SFP Plus	10GBase-R 1000Base-X
	<45W
	0°C ~ 50°C
	-40°C ~ 70°C
	10% ~ 90% RH
	0~5000m
	5% ~ 95% RH
EMI	GB9254-2008CLASS A
	GB4943-2011
x x mm	440×280×44
kg	3.9kg

RG-NBS5750-28GT4XS-E	28 10/100/1000Base-T	4 Combo SFP
4 SFP Plus 1	MGMT 1 USB 1 MiniUSB	Console MiniUSB
Console	Miniusb 1 Console	2

1-1 RG-NBS5750-28GT4XS-E



1-2 RG-NBS5750-28GT4XS-E



1		7	
2	(PWR1)	8	USB
3	(PWR2)	9	MiniUSB
4	MGMT	10	MGMT
5	Console	11	SFP
6	10/100/1000Base-T	12	SFP+

1-3 RG-NBS5750-28GT4XS-E

RG-NBS5750-E



1		2	1
3	2		

RG-NBS5750-28GT4XS-E

1.2

1

2

2

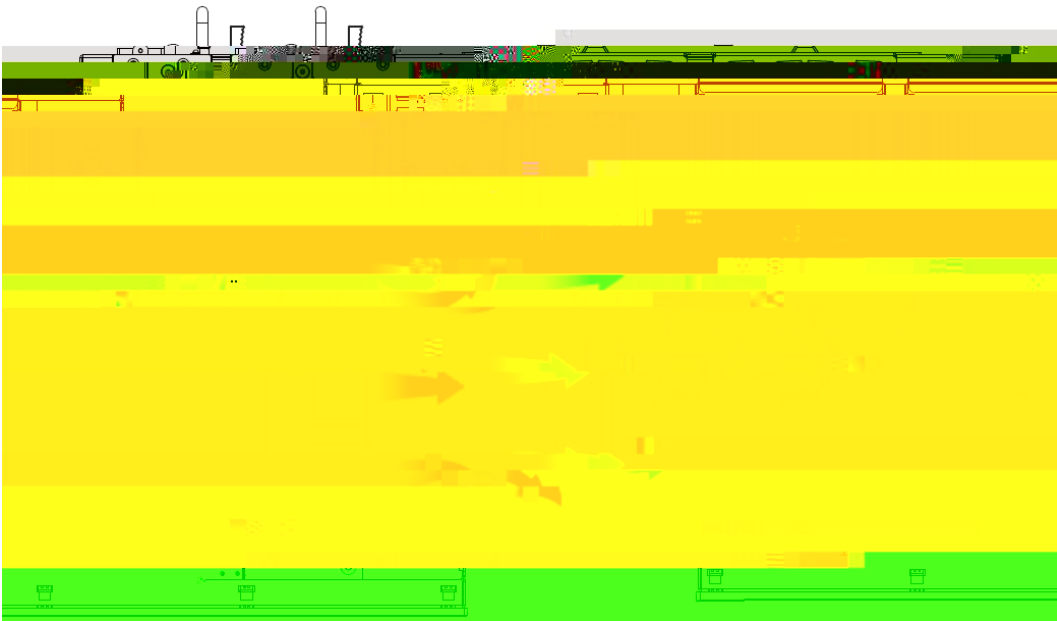


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RG-NBS5750-28GT4XS-E

10cm

1-4



	Status	3HZ	3HZ
		10HZ	
		1 2	
			5.2
	PWR1/PWR2		
			AC
MGMT	MGMT		Link
			1000M Link Up
			1000M
			100/10M Link Up
			100/10M
SFP+	29F-32F		Link
			10G/1G Link Up
			10G/1G
SFP	25F-28F		Link
			1000M Link Up
			1000M
			100M Link Up
			100M
10/100/1000Base-T	1-28		Link
			1000M Link Up
			1000M
			100/10M Link Up
			100/10M

## 1.2

RG-NBS5750-28GT4XS-E  
12V

RG-PA70I

RG-PA70I  
70W

HVDC

 RG-NBS5750-28GT4XS-E

RG-PA70I



1

2

2

2



RG-PA70I

	RG-PA70I
	RG-NBS5750-28GT4XS-E
	AC 100Vac~240Vac;50/60Hz HVDC 240VDC
	AC 90Vac~264Vac; 47/63Hz HVDC 192VDC-288VDC
	2A MAX
	12V
	5.83A
	70W
	1.75mA
X X	156mm*50.5mm*38mm
kg	0.395kg
	-10 ~+50
	-40 ~+70
	10%~90%
	5%~95%
	0~5000m

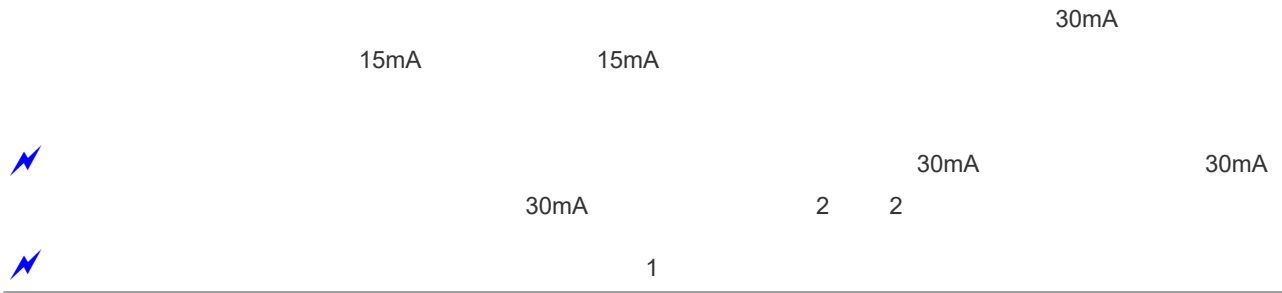
RG-PA70I

I2C	I2C
	1+1
	1+1

RG-PA70I

	DC OK	RG-PA70I
		RG-PA70I





### 2.1.4

- PE
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### 2.1.5

RG-NBS5750-E I

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## 2.2

### 2.2.1

RG-NBS5750-E 10cm 3

### 2.2.2

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0°C-50°C	10%-90%



1.5m

0.4m

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**2.2.3**

0.5 m	/ m <sup>3</sup>	3.5 10 <sup>6</sup>
5 m	/ m <sup>3</sup>	3 10 <sup>4</sup>

	(mg/m <sup>3</sup> )	(mg/m <sup>3</sup> )
SO <sub>2</sub>	0.3	1.0
H <sub>2</sub> S	0.1	0.5
NO <sub>2</sub>	0.5	1.0
Cl <sub>2</sub>	0.1	0.3



30

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**2.2.4**

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TN

PE

2.2.5

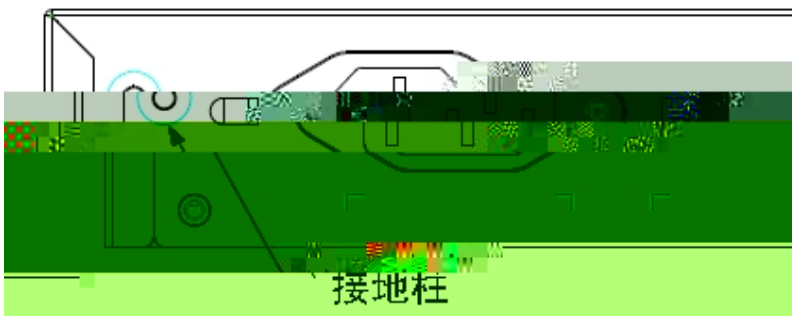
RG-NBS5750-E



	0.75	18AWG		
3			0.75	18AWG

1Ω RG-NBS5750-E 1 2-1

2-1RG-NBS5750-E



### 2.2.6

RG-NBS5750-E



### 2.2.7 EMI

EMI

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## 2.3


### 3

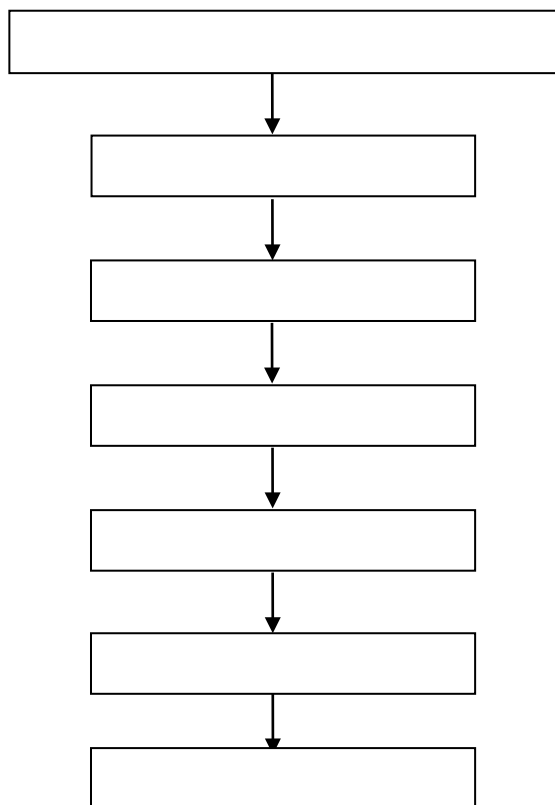
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#### 3.1



#### 3.2

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#### 3.3 RG-NBS5750-E

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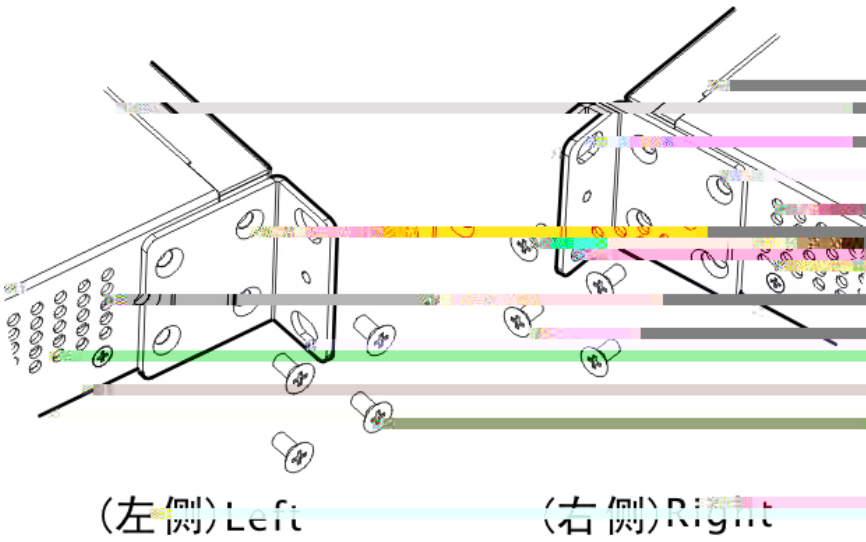
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- RG-NBS5750-E
- 10
- RG-NBS5750-E
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3.3.1

RG-NBS5750-E EIA 19

3-1

3-1

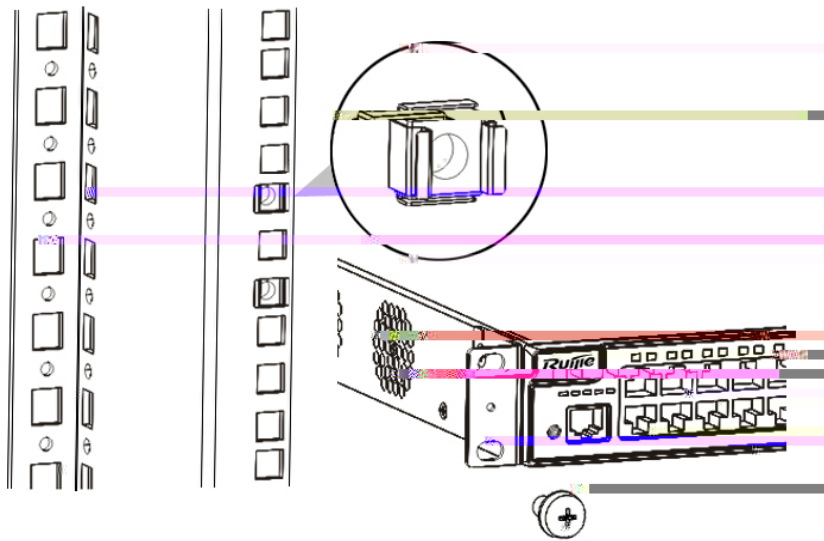


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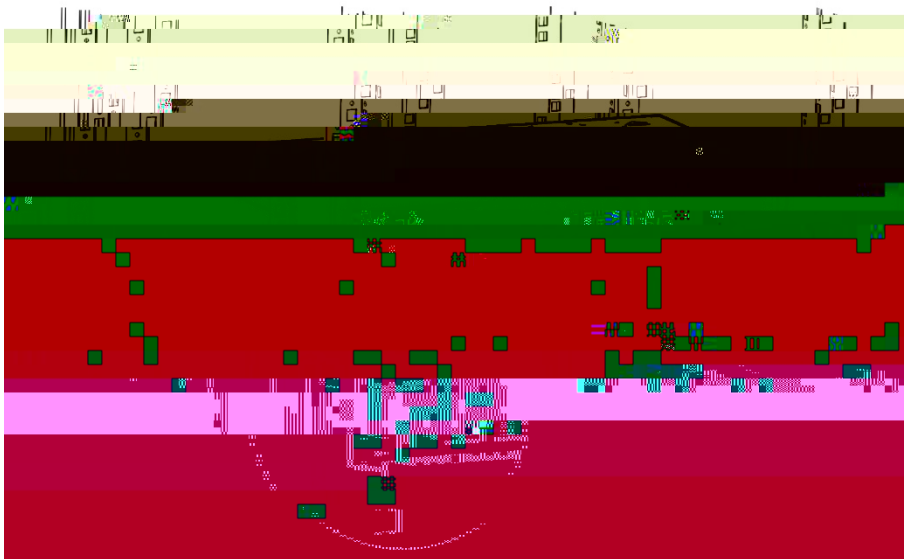
M6

3-3

3-2



3-3



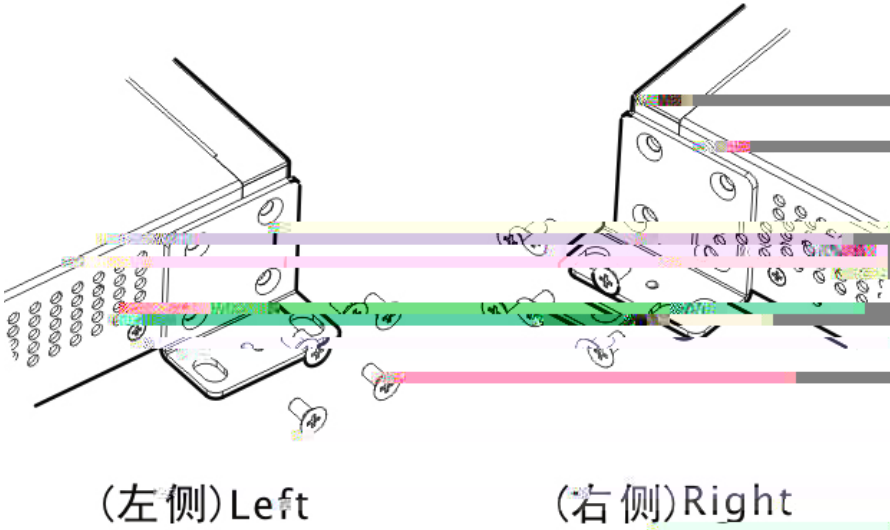
### 3.3.2

RG-NBS5750-E

90

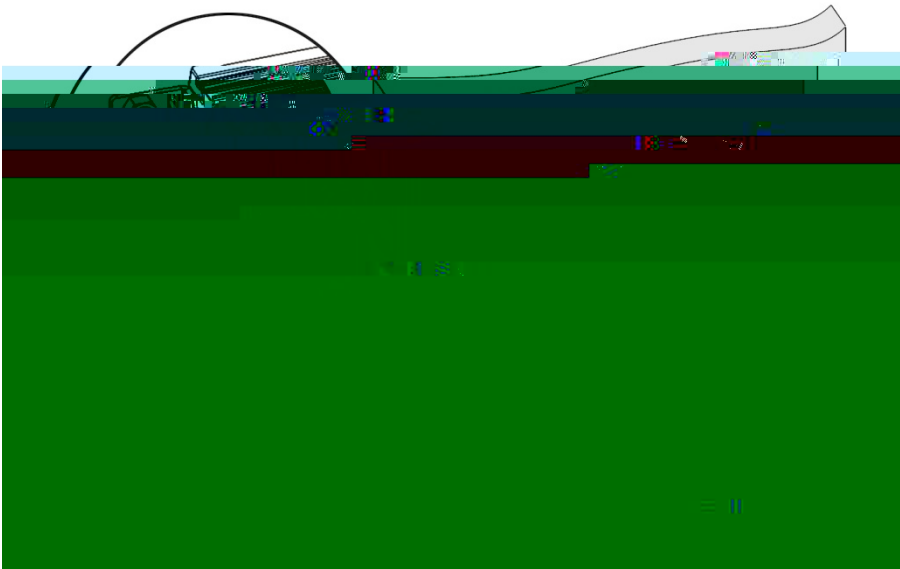
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3-4



3-5

3-5



3.3.3

19

4

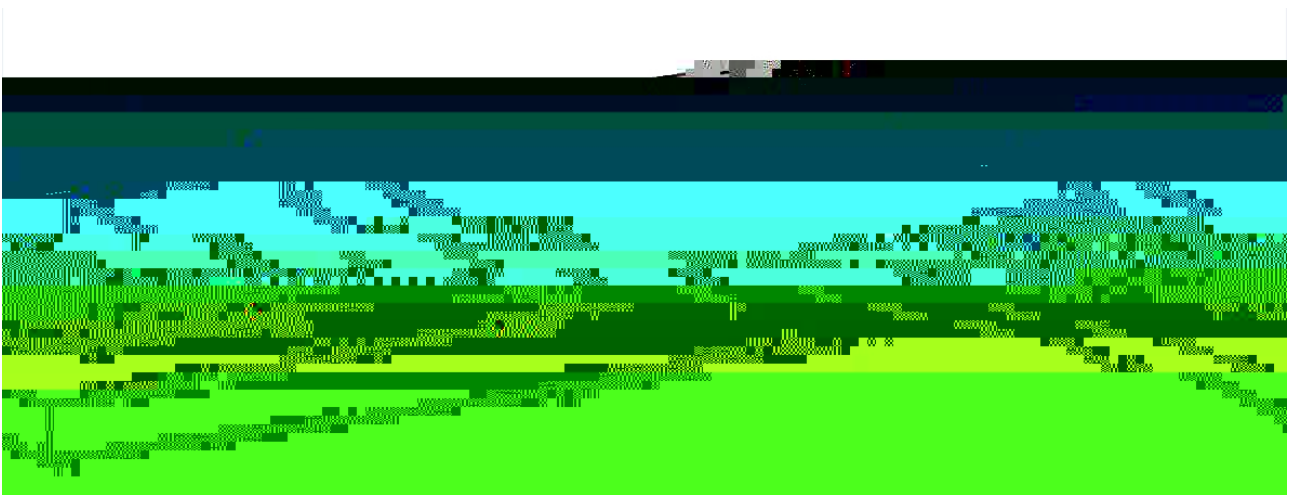
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3-7

3-7



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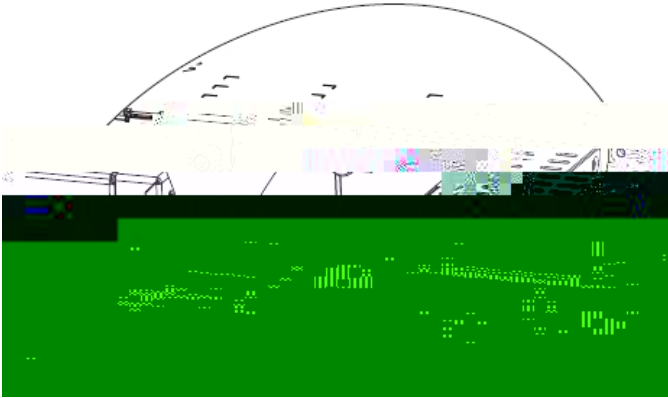
## 3.4

### RG-PA70I

1)

2)

3-8



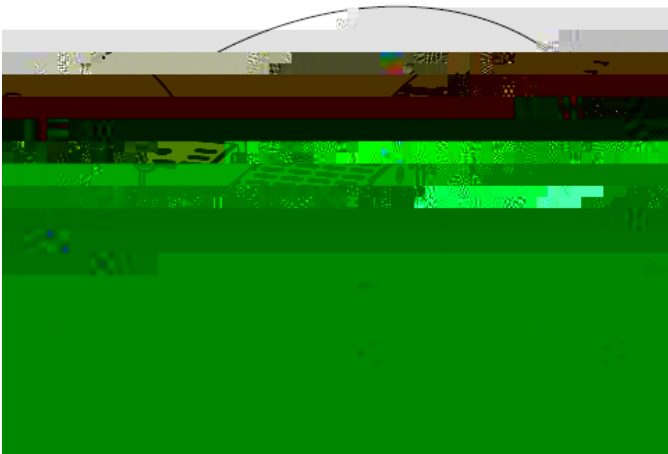
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### RG-PA70I

1)

2)

3-9



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 RG-PA70I



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## 3.5

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1Ω

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⚡

⚡

2.5

12AWG

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### 3.6

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1)

RJ45

2)

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3)

RJ45

### 3.7

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1)

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2)

3)

### 3.8

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# 4

## 4.1

PC Console 4-1  
4-1



- DB-9 PC
- RJ-45 Console

- PC PC Windows3.1 Terminal Windows 95/98/NT/2000/XP

- 9600 8 1

1) - - - - 4-2

4-2



2)

4-3

4-3



3)

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4-4

4-4





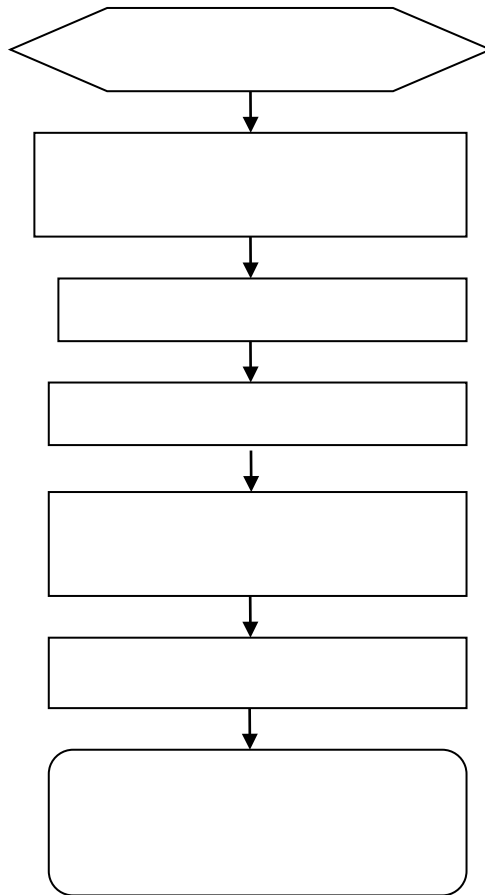
## 4.2

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- PC console

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## 5

### 5.1



### 5.2

status		
Status		

RJ45	100	

# A

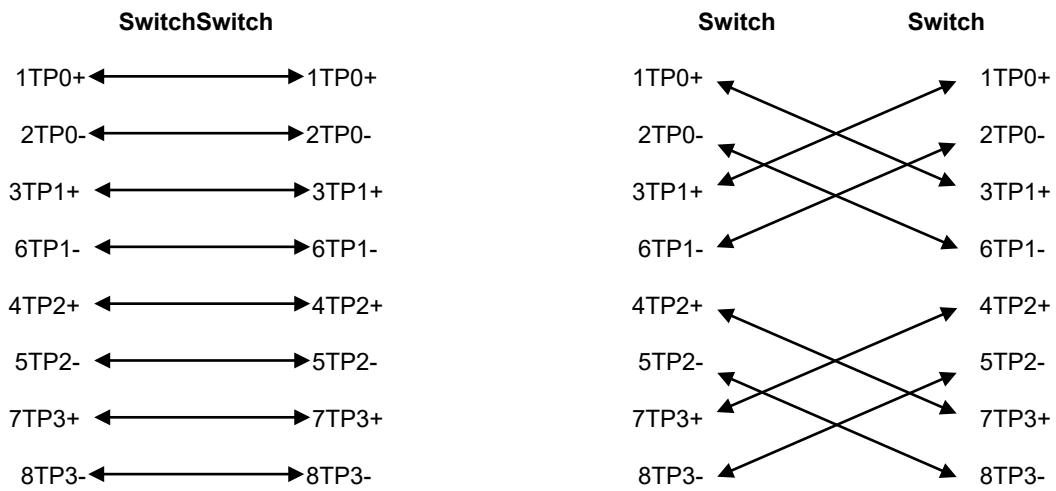
## 1000BASE-T/100BASE-TX/10BASE-T

1000BASE-T/100BASE-TX/10BASE-T

MDI/MDIX Crossover

1000BASE-T	IEEE 802.3ab STP	100	100-ohm 5	5	UTP	STP
1000BASE-T	4		4	1000BASE-T		A-1

A-1 1000BASE-T



100BASE-TX/10BASE-T

10Mbps 100-ohm 3 4 5  
100BASE-TX/10BASE-T

100Mbps

100-ohm 5 100  
A-2

A-2 100BASE-TX/10BASE-T

Pin		
1	Input Receive Data+	Output Transmit Data+
2	Input Receive Data-	Output Transmit Data-
3	Output Transmit Data+	Input Receive Data+
6	Output Transmit Data-	Input Receive Data-
4 5 7 8	Not Used	Not Used

100BASE-TX/10BASE-T

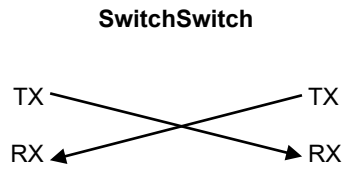
A-3

A-3 100BASE-TX/10BASE-T



A-4

A 4



## B — Mini-GBIC SFP+

Mini-GBIC-GT ( )

SFP      Mini-GBIC      SFP+

SFP      SFP+      SFP

### B-1 Mini-GBIC SFP

	(nm)	DDM (Yes/No)	(dBm)		(dBm)	
			min	max	min	max
MINI-GBIC-SX-MM850	850	No	-9.5	-3	-17	0
MINI-GBIC-LX-SM1310	1310	No	-9.5	-3	-20	-3
GE-SFP-SX	850	No	-9.5	-3	-17	0
GE-SFP-LX	1310	No	-9.5	-3	-20	-3
GE-SFP-SX-SM1550-BIDI	1550TX/13 10RX	No	-10	-5	-17	-3
GE-SFP-SX-SM1310-BIDI	1310TX/15 50RX	No	-10	-5	-17	-3
GE-eSFP-SX-MM850	850	Yes	-9.5	-3	-17	0
GE-eSFP-LX-SM1310	1310	Yes	-9.5	-3	-20	-3
GE-SFP-LX-SM1310	1310	No	-9.5	-3	-20	-3
GE-SFP-LX20-SM1310-BIDI	1310TX/15 50RX	Yes	-9	-3	-20	-3
GE-SFP-LX20-SM1550-BIDI	1550TX/13 10RX	Yes	-9	-3	-20	-3
GE-SFP-LH40-SM1310-BIDI	1310TX/15 50RX	Yes	-5	0	-24	-1
GE-SFP-LH40-SM1550-BIDI	1550TX/13 10RX	Yes	-5	0	-24	-1
MINI-GBIC-LH40-SM1310	1310	Yes	-2	3	-22	-3
MINI-GBIC-ZX50-SM1550	1550	Yes	-5	0	-22	-3
MINI-GBIC-ZX80-SM1550	1550	Yes	0	4.7	-22	-3
MINI-GBIC-ZX100-SM1550	1550	Yes	0	5	-30	-9

### B-2 SFP

	1000Base-T SFP	DDM(Yes/No)
1000Base-T	Mini-GBIC-GT	No

### B-3 SFP

SFP			(um)	
MINI-GBIC-SX-MM850	LC		62.5/125	275m
			50/125	550m
MINI-GBIC-LX-SM1310	LC		9/125	10km
GE-eSFP-SX-MM850	LC		62.5/125	275m
			50/125	550m
GE-eSFP-LX-SM1310	LC		9/125	10km
GE-SFP-LX-SM1310	LC		9/125	10km
MINI-GBIC-LH40-SM1310	LC		9/125	40km
GE-SFP-SX-SM1310-BIDI	LC		50/125	500m
GE-SFP-SX-SM1550-BIDI	LC		50/125	500m
GE-SFP-LX20-SM1310-BIDI	LC		9/125	20km
GE-SFP-LX20-SM1550-BIDI	LC		9/125	20km
GE-SFP-LH40-SM1310-BIDI	LC		9/125	40km
GE-SFP-LH40-SM1550-BIDI	LC		9/125	40km
MINI-GBIC-ZX50-SM1550	LC		9/125	50km
MINI-GBIC-ZX80-SM1550	LC		9/125	80km
MINI-GBIC-ZX100-SM1550	LC		9/125	100km
SDH155-SFP-SX-MM850	LC		62.5/125	500m
SDH155-SFP-SX-MM1310	LC		62.5/125	2km
SDH155-SFP-LH15-SM1310	LC		9/125	15km
SDH155-SFP-LH40-SM1310	LC		9/125	40km
SDH155-SFP-LH80-SM1310	LC		9/125	80km
GE-SFP-SX	LC		62.5/125	275m
			50/125	550m
GE-SFP-LX	LC		9/125	10km
Mini-GBIC-GT	RJ45	5		100m



40

40



**B-5 SFP+**

	(nm)	DDM (Yes/No)	dbm		dbm	
XG-SFP-SR-MM850	850	Yes	-5	-1	-7.5	0.5
XG-SFP-SR-SM1270-BIDI	1270	No	-3	4	-9	0.5
XG-SFP-SR-SM1330-BIDI	1270	No	-3	4	-9	0.5

XG-SFP-LR-SM1270-BIDI	1270	No		-6.5	0.5	-14.4	0.5
XG-SFP-LR-SM1330-BIDI	1330	No		-6.5	0.5	-14.4	0.5
XG-SFP-LR-SM1310	1310	Yes		-8.2	0.5	-14.4	0.5
XG-SFP-ER-SM1550	1550	Yes		-4.7	4	-11.3	-1
XG-SFP-ZR-SM1550	1550	Yes		0	4	-24	-7
XS-SFP-SR	850	Yes		-5	-1	-7.5	0.5
XS-SFP-LR	1310	Yes		-8.2	0.5	-10.3	0.5

**B-6 SFP+**

			(um)	(MHz km)	
XG-SFP-SR-MM850	LC		62.5 /125	200(OM1) 160	33m 26m
			50/125	2000(OM3) 500(OM2) 400(OM1)	300m 82m 66m
XG-SFP-SR-SM1270-BIDI	LC		50/125	2000(OM3)	300m
XG-SFP-SR-SM1330-BIDI	LC		50/125	2000(OM3)	300m
XG-SFP-LR-SM1270-BIDI	LC		9/125	N/A	10km
XG-SFP-LR-SM1330-BIDI	LC		9/125	N/A	10km
XG-SFP-LR-SM1310	LC		9/125	N/A	10km
XG-SFP-ER-SM1550	LC		9/125	N/A	40km
XG-SFP-ZR-SM1550	LC		9/125	N/A	80km
XS-SFP-SR	LC		62.5 /125	200(OM1) 160	33m 26m
			50/125	2000(OM3) 500(OM2) 400(OM1)	300m 82m 66m
XS-SFP-LR	LC		9/125	N/A	10km



XG-SFP-ER-SM1550 XG-SFP-ZR-SM1550

-1dBm

-1dBm



**B-7 SFP+**

			(M)	(AWG)	(Gb/s)	DDM (Yes/No)
XG-SFP-CU1M		SFP+	1	28	10.3125	No
XG-SFP-CU3M		SFP+	3	28	10.3125	No
XG-SFP-CU5M		SFP+	5	26	10.3125	No

XG-SFP-AOC1M		SFP+	1	\	10.3125	No
XG-SFP-AOC3M		SFP+	3	\	10.3125	No
XG-SFP-AOC5M		SFP+	5	\	10.3125	No

 SFP+

**B-8BIDI**

/	
/500m	GE-SFP-SX-SM1310-BIDI GE-SFP-SX-SM1550-BIDI
/20km	GE-SFP-LX20-SM1310-BIDI GE-SFP-LX20-SM1550-BIDI
/40km	GE-SFP-LH40-SM1310-BIDI GE-SFP-LH40-SM1550-BIDI
/300m	XG-SFP-SR-SM1270-BIDI XG-SFP-SR-SM1330-BIDI
/10km	XG-SFP-LR-SM1270-BIDI XG-SFP-LR-SM1330-BIDI

 BIDI  
 GE-SFP-LX20-SM1550-BIDI  
 GE-SFP-LX20-SM1310-BIDI

C —

C-1



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PE

PE

PE

1)

2)

3)

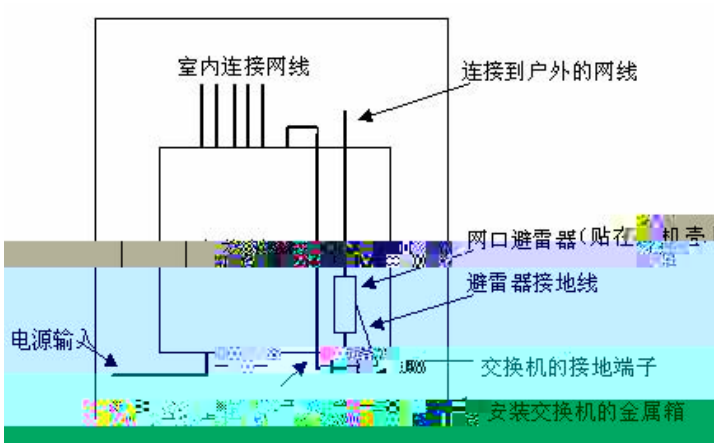
4)

OUT

IN

5)

C-2



10/100M

RJ-45



“IN”

“OUT”

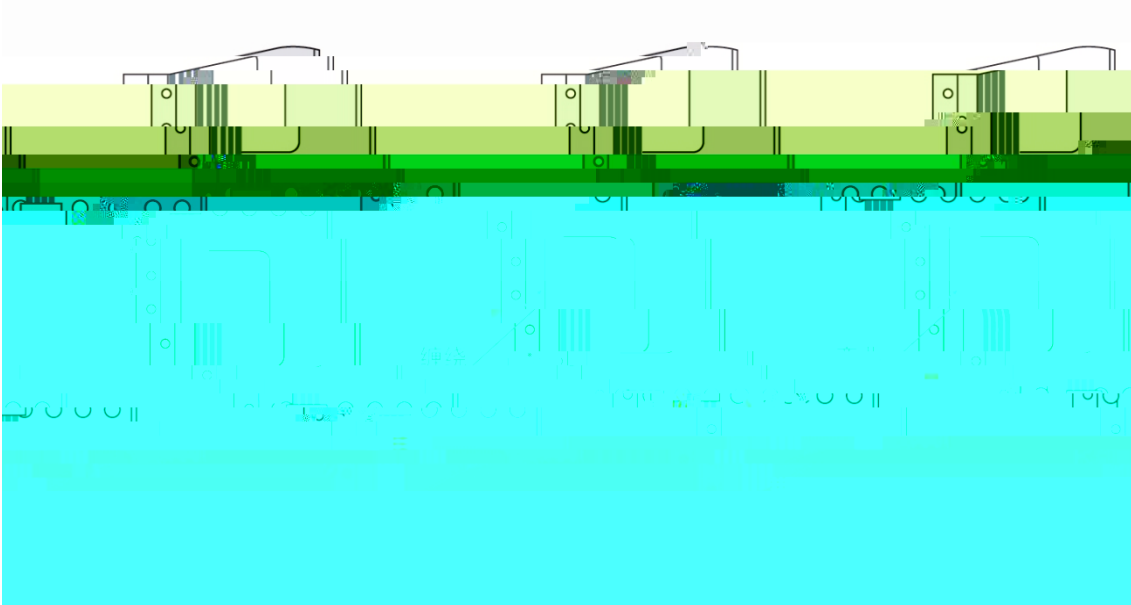


# D —

RG-NBS5750-E

19

■			5
	7		
■		7	10
■	SFP+	5	10
■		25	
■	20		
■	10		
■			
■			D-1
D-1			

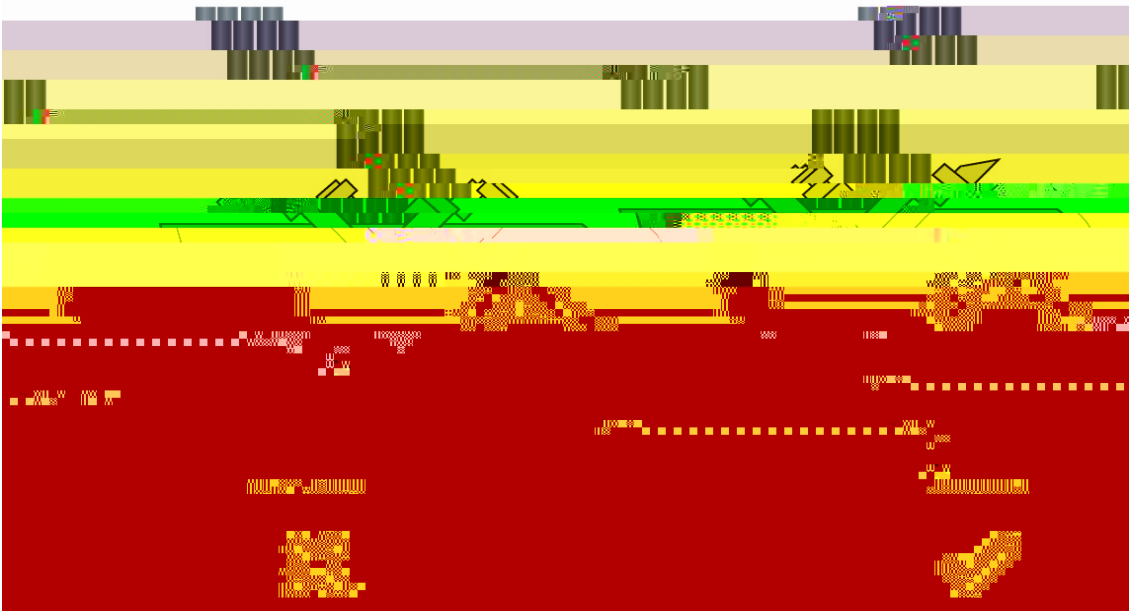


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D-2

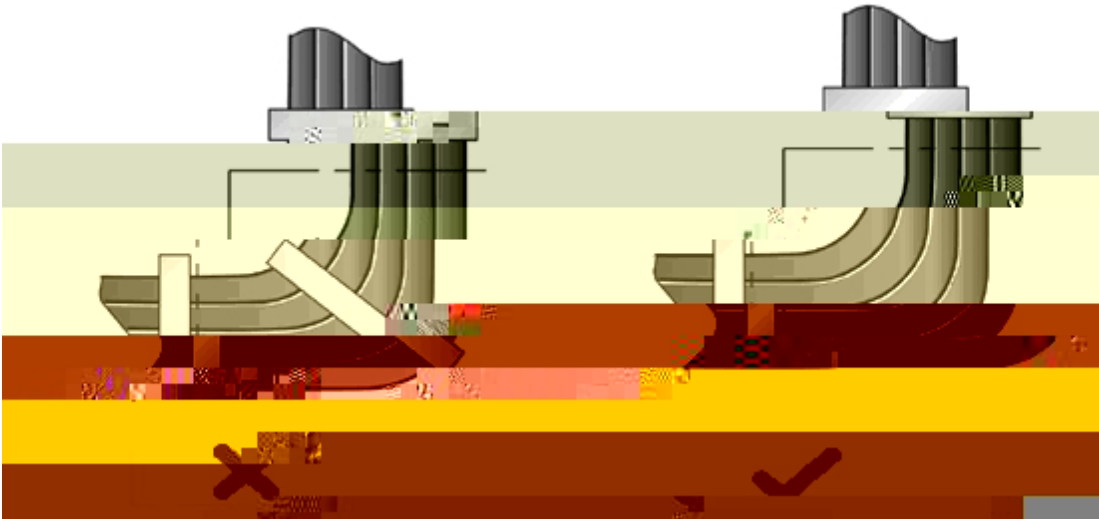
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D-3

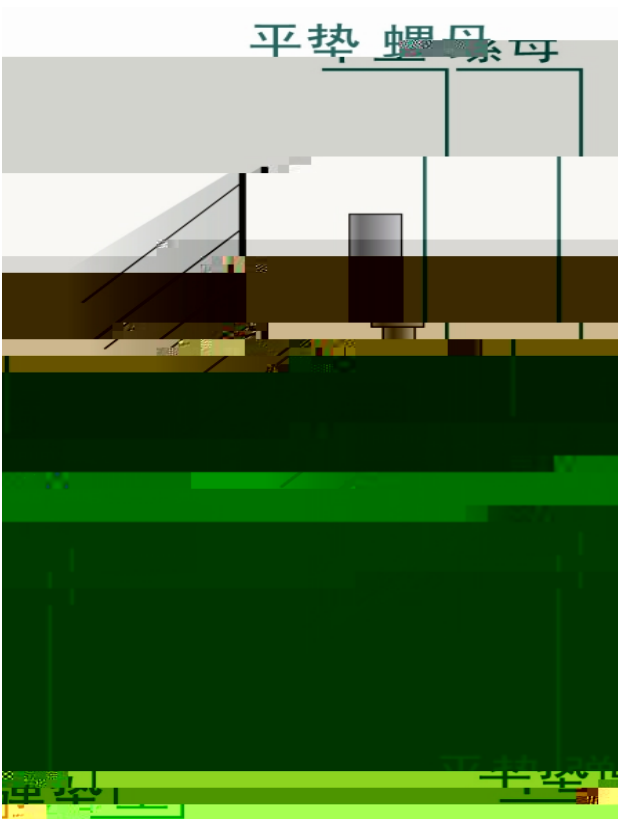
D-3



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D-4

D-4



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mm	mm
10	80~150
10~30	150~200
30	200~300

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**E** —

