



ศูนย์เทคโนโลยีสารสนเทศและการสื่อสาร สป.มท.  
Information and Communication Technology Center.

**SAMART**

# IP Telephony

*Analog Voice GW types*



**VG320**

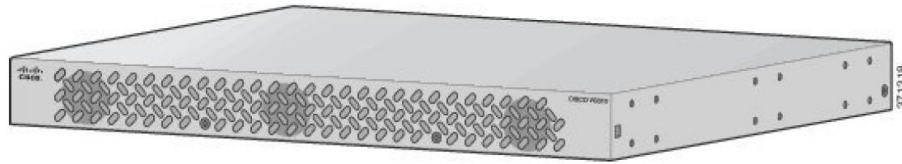


**VG202XM**

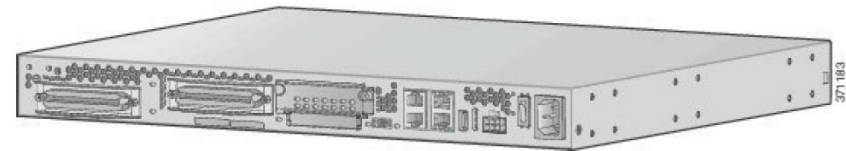


- Chassis View

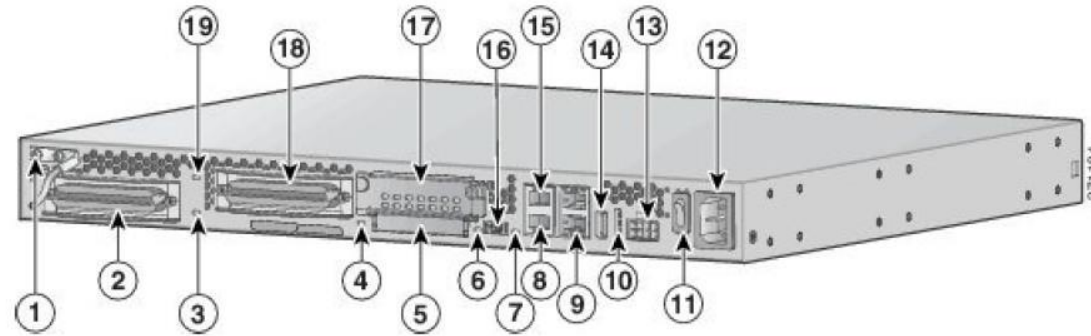
Front Panel



Back Panel



- Back Panel Features of Cisco VG320



1	Chassis ground connection	11	On/off switch
2	FXS RJ-21 connector 1	12	AC power input
3	Status LED for FXS RJ-21 connector 1	13	DC power input
4	Status LED for CompactFlash card	14	USB connector
5	CompactFlash card slot	15	RJ-45 serial AUX port
6	Status LED for mini USB	16	Mini USB connector
7	Status LED for console	17	EHWIC slot
8	RJ-45 serial console port	18	FXS RJ-21 connector 2
9	Gigabit Ethernet ports (2)	19	Status LED for FXS RJ-21 connector 2
10	Status LEDs for DC input power		



- VG320 Analog Voice Gateway Interfaces and Service Capabilities

Port	Interface Configuration	Interface To
Console Port 0/0	EIA/TIA-232 asynchronous serial (data communications equipment)	ASCII terminal Personal computer
Auxiliary Port 0/1	EIA/TIA-232 Modem asynchronous serial (data terminal equipment)	Modem
Gigabit Ethernet Port 0/0, 0/1	1000BASE-T LAN Data (802.3)	LAN

- VG320 Analog Voice Gateway Interfaces and Service Capabilities

Port	Interface Configuration	Interface To
(For Cisco VG320 only) RJ-21 48 analog FXS voice ports Port 0/0/0 to 0/0/23 and port 0/1/0 to 0/1/23	FXS (loop start or ground-start)	Analog phone, fax, or modem Network side of key system Network side of analog PBX

- LED Indicator Pattern for GE Ports

LED Indicator Pattern	Link Speed
Blinks once followed by a pause	10 Mbps
Blinks twice followed by a pause	100 Mbps
Blinks thrice followed by a pause	1000 Mbps

- Analog Voice RJ-21 Pinouts

Figure 4. RJ-21 Connector Wiring

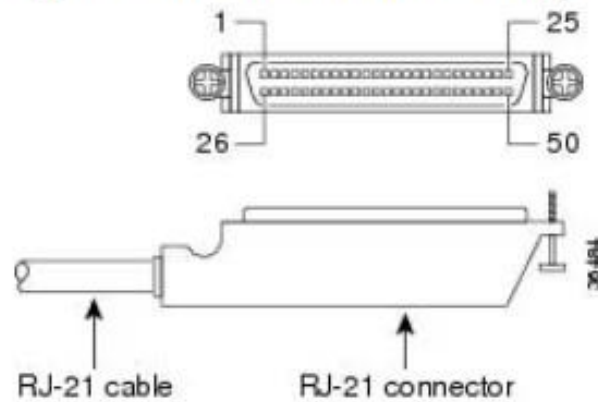


Table 10. Pinouts for FXS and FXO Voice Ports

Pair	Ring Conductor	Tip Conductor
1	1	26
2	2	27
3	3	28
4	4	29
5	5	30
6	6	31
7	7	32
8	8	33
9	9	34
10	10	35
11	11	36
12	12	37
13	13	38
14	14	39
15	15	40
16	16	41
17	17	42
18	18	43
19	19	44
20	20	45
21	21	46
22	22	47
23	23	48
24	24	49



- Telephone Color Code



Pair #	First wire	Second wire
1	White	Blue
2		Orange
3		Green
4		Brown
5		Slate
6	Red	Blue
7		Orange
8		Green
9		Brown
10		Slate
11	Black	Blue
12		Orange
13		Green
14		Brown
15		Slate
16	Yellow	Blue
17		Orange
18		Green
19		Brown
20		Slate
21	Violet	Blue
22		Orange
23		Green
24		Brown
25		Slate

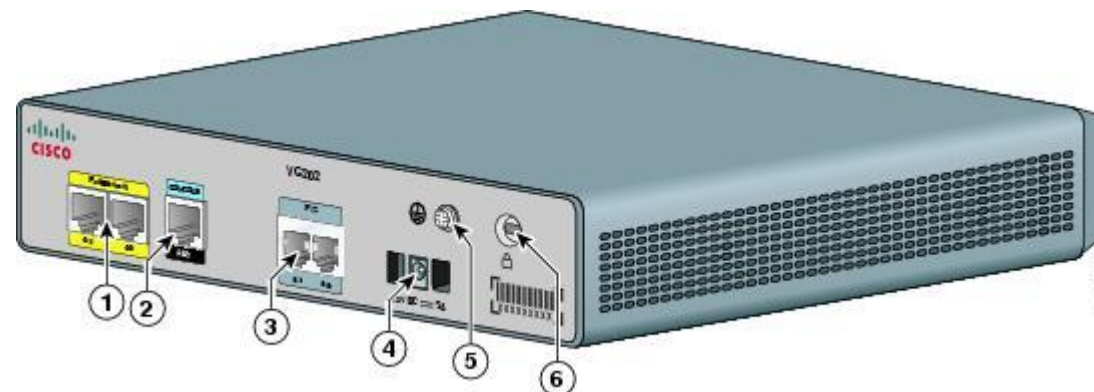


- Chassis View

Front Panel

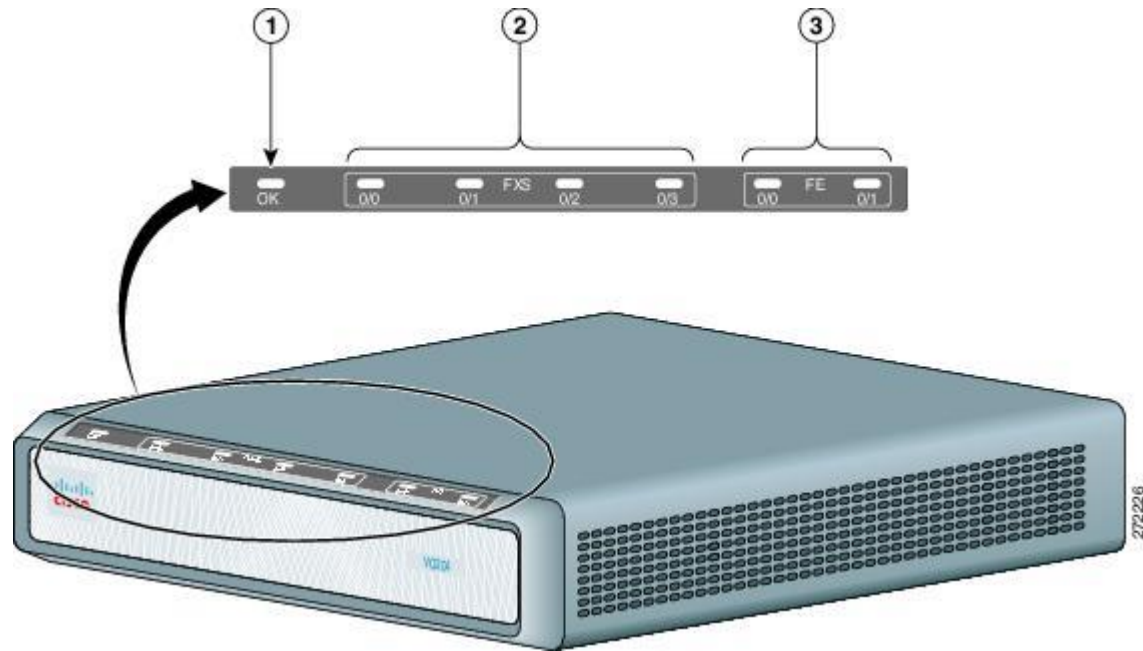


Back Panel



1	Fast Ethernet port 1, Fast Ethernet port 0	2	Serial port—console or auxiliary	3	FXS ports
4	Power connector	5	Chassis ground connection	6	Kensington security slot

- LEDs

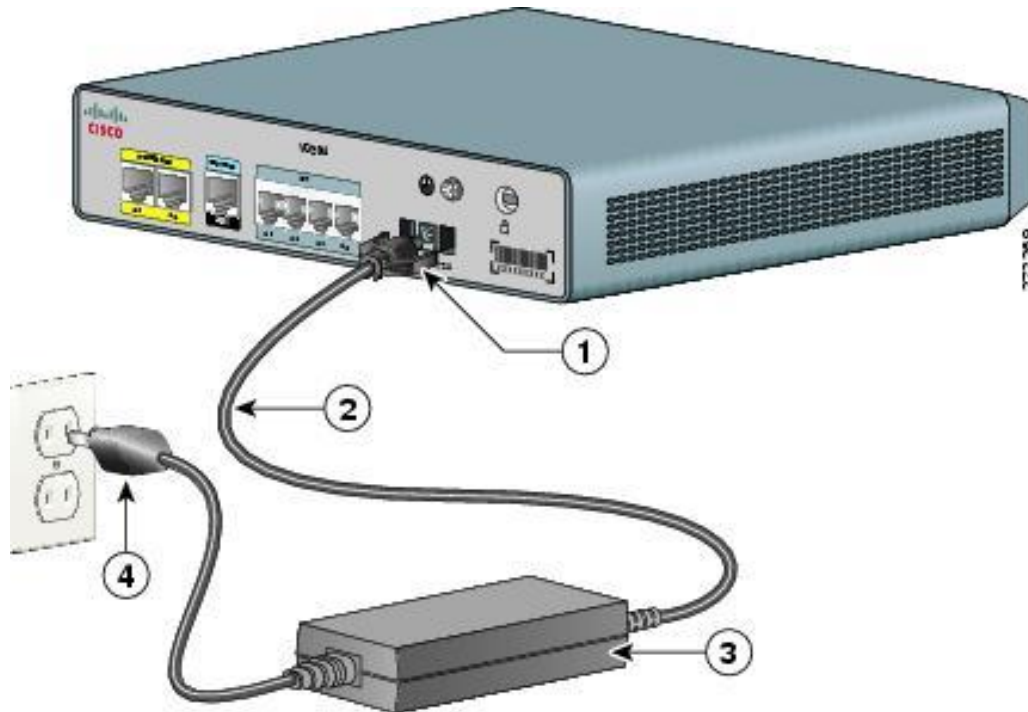


1	OK LED	2	FXS0, FXS1	3	Fast Ethernet 0/0 and 0/1 LEDs
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- Describes the status of each LED

No	LED/Color	Description
1	PWR OK—green	Off—no power Steady on—normal operation Slow blink—bootup phase or in ROMMON monitor mode
2	FXS ports 0 through 1—green	Off—On hook Steady On—Off hook
3	Fast Ethernet ports 0/1—green	Off—No link Steady on—link Blinking—TXD/RXD data

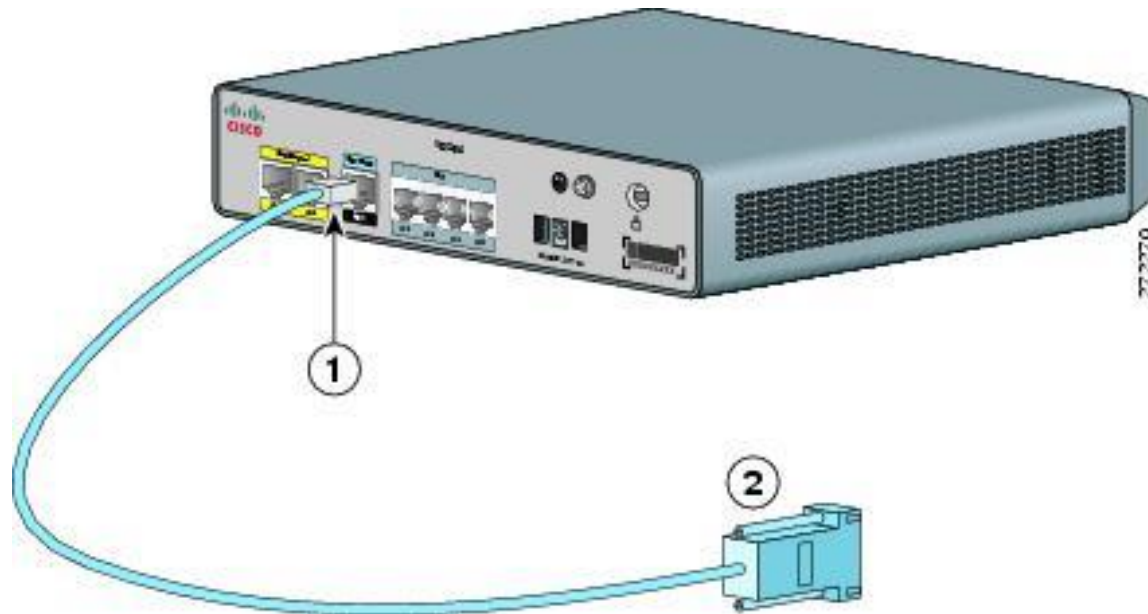
- Connecting Input Power to the Chassis



1	Power lock clip
2	Power cord
3	Power adapter
4	AC plug



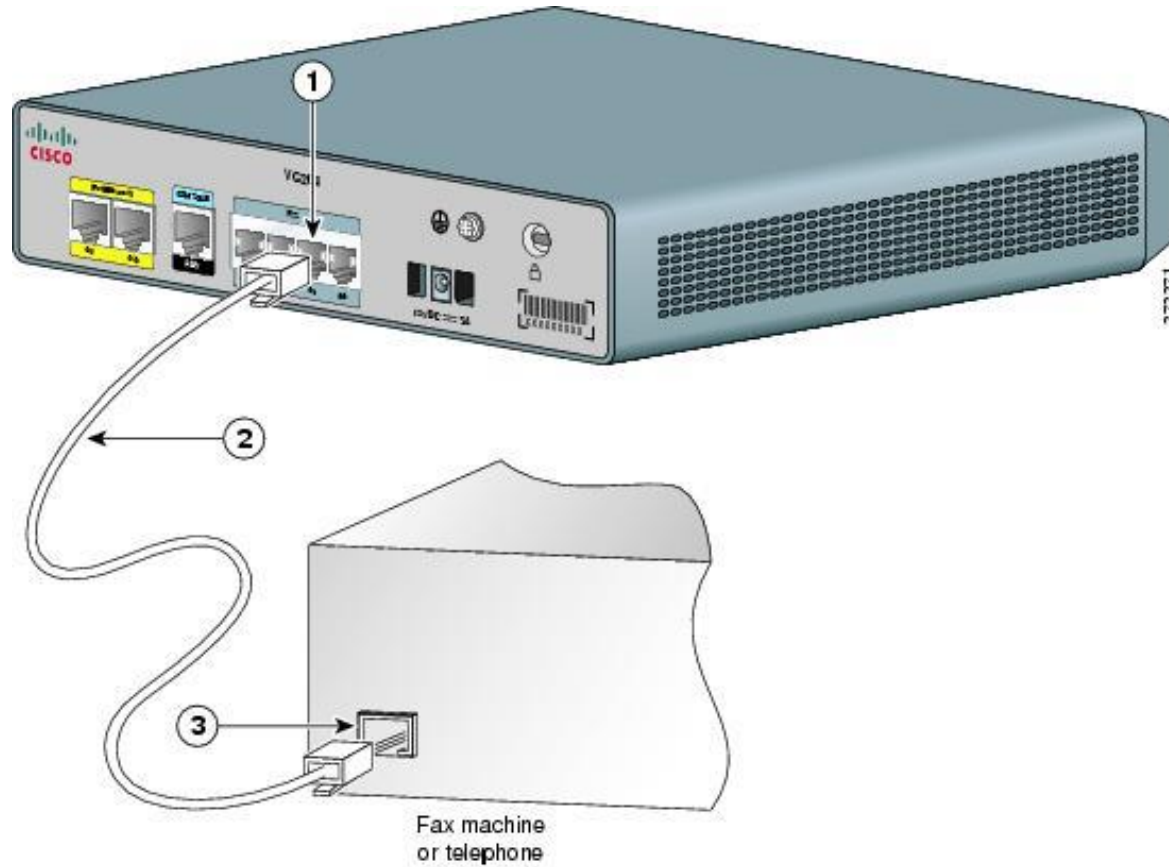
- Connecting a Terminal or PC to the Console Port



1	RJ-45 connector to the Console Aux port on the chassis
2	DB-9 connector



- Connecting an FXS Line



1	FXS port
2	RJ-11 cable
3	RJ-11 port



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Thanks and Regards.

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