

Network Interface Cards

The Cloud Services Gateway (CSG) 700 series appliances offer field configurability using the network interface card (NIC) slot.

NIC Types

Tables 1, 2, and 3 describe the NICs and the Versa Operating SystemTM (VOSTM) software releases in which the NIC is supported.

Table 1: CSG730 NIC Support

NIC Type and Model	NIC Options	Description	VOS Support
Gigabit Ethernet			
• NIC-4GP	4-port RJ45 copper Gigabit Ethernet PoE/PoE+NIC, 60 W	 Supports IEEE 802.3af Type 1 PoE and IEEE 802.3at Type 2 PoE+ devices over CAT 5e. Each port can supply up to 30 W of power, with a maximum of 60 W for the module 	Releases 21.2.1 and later
• NIC-4GP-120 W	4-port RJ45 copper Gigabit Ethernet PoE/PoE+NIC, 120 W	 Supports IEEE 802.3af Type 1 PoE and IEEE 802.3at Type 2 PoE+ devices 802.3at-2009 over CAT 5e. Each port can supply up to 30 W of power, with a maximum of 120 W for the module 	Releases 21.2.1 and later
ADSL+/VDSL			
• NIC-1VA	1 RJ45 port ADSL+/VDSL, Annex A	Single-port ADSL+/VDSL module that supports Annex A (POTS)	Releases 21.2.1 and later
• NIC-1VB	1 RJ45 port ADSL+/VDSL, Annex B	Single-port ADSL+/VDSL module that supports Annex B (ISDN)	Releases 21.2.1 and later
T1/E1			
• NIC-4DS	4-ports RJ45 T1/E1	Supports T1/E1 framing	Releases 21.2.1 and later

	Supports all common formats	
	Supports PPP, HDLC, and Frame Relay encapsulations	

Table 2: CSG750, CSG750R, CSG770, and CSG770R NIC Support

NIC Type and Model	NIC Options	Description	VOS Support
Gigabit Ethernet			
• NIC-4GP	4-port RJ45 copper Gigabit Ethernet PoE/PoE+ NIC, 60 W	 Supports IEEE 802.3af Type 1 PoE and IEEE 802.3at Type 2 PoE+ devices over CAT 5e. Each port can supply up to 30 W of power, with a maximum of 60 W for the module. 	Releases 21.2.1 and later
• NIC-4GP-120 W	4-port RJ45 copper Gigabit Ethernet PoE/PoE+NIC, 120 W	 Supports IEEE 802.3af Type 1 PoE and IEEE 802.3at Type 2 Class 4 PoE+ devices 802.3at-2009 over CAT 5e. Each port can supply up to 30 W of power, with a maximum of 120 W for the module. 	Releases 21.2.1 and Releases 22.1.4 and later
• NIC-8GE	8-port RJ45 copper Gigabit Ethernet copper	Supports 10/100/ 1000BASE-T over CAT 5e	Release 21.1.3, Releases 21.2.2, and Releases 22.1.4 and later
ADSL+/VDSL			
• NIC-1VA	1 RJ45 port ADSL+/VDSL, Annex A	Single-port ADSL+/VDSL module that supports Annex A (POTS)	Releases 21.2.1, Releases 22.1.4 and later
• NIC-1VB	1 RJ45 port ADSL+/VDSL, Annex B	Single-port ADSL+/VDSL module that supports Annex B (ISDN)	Releases 21.2.1, Releases 22.1.4 and later

T1/E1			
• NIC-4DS	4-port RJ45 T1/E1	 Supports T1/E1 framing Supports all common formats Supports PPP, HDLC, and Frame Relay encapsulations. 	Releases 21.2.1, Releases 22.1.4 and later

Table 3: CSG780R NIC Support

NIC Type and Model	NIC Options	Description	VOS Support
NIC-8GE	8-port RJ45 copper Gigabit Ethernet	Supports 10/100/ 1000BASE-T over CAT 5e	Releases 22.1.4 and later
NIC-4GP-120 W	4-port Gigabit Ethernet PoE-120 W NIC	Supports IEEE 802.3af Type 1 PoE and IEEE 802.3at Type 2 Class 4 PoE+ devices 802.3at-2009 over CAT 5e. Each port can supply up to 30 W of power, with a maximum of 120 W for the module.	Releases 22.1.4 and later
NIC-4GF	4-port Gigabit Ethernet SFP	Supports fiber Gigabit Ethernet	Releases 22.1.4 and later

The four Ethernet ports on the NIC are labeled Port 6 through Port 9.

The CSG700 series appliance NICs are not field installable.

Figure 1 shows the four RJ-45 connectors for the four Ethernet ports. (1 GbE port and for the 1 GbE with PoE port.)

Figure 1: RJ-45 Connectors for 1 GbE Port with or without PoE Port

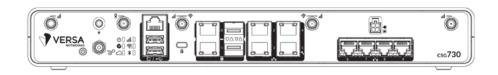
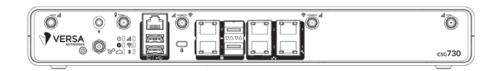


Figure 2 shows the four RJ-45 connectors/SFP slots for the 1 GbE /SFP combination port.

Figure 2: RJ-45 Connectors or SFP Slots for 1 GbE /SFP Combination Port



NIC Specifications

Table 4 lists the NIC specifications for CSG700 series chassis.

Table 4: CSG700 Series NIC Specifications

Item	Specification
Item Specification	
Typical power consumption	10 Watts
System power input	3.3 VDC @ 3A
PoE power adapter input	54 VDC @ 2.78 A, 100-240 VAC @ 2A, 50-60 Hz
Physical Specifications	
Height	1.54" (39 mm)
Width	3.25" (82.5 mm)
Depth	5.52" (140 mm)
Weight	
• NIC-8GE	0.33 lb (150 gm)

Item	Specification
• NIC-4GP-120 W	0.44 lb (200 gm)
• NIC-1VA/1VB	0.33 lb (150 gm)
• NIC-4DS	0.44 lb (200 gm)
• NIC-4GF	0.33 lb (150 gm)
Package Specifications	
Package height	3.25" (82.55 mm)
Package width	6" (152.4 mm)
Package depth	9" (228.6 mm)
Package weight	0.77 lb (350 gm)
Operating Conditions	
Temperature	0 to 40°C (32 to 104°F)
Humidity	10 to 85% relative humidity
Altitude	Maximum 3000 m (10000 ft)
Noise level	0 dBm
Storage Conditions	
Temperature	–20 to 70°C (–4 to 158°F) at sea level
Humidity	10 to 85% relative humidity