

Network Interface Card

The Cloud Services Gateway (CSG) 3000 series appliances offer field-based configurability using the network interface card (NIC) slot. CSG3000 series appliances also support additional NIC options such as ADSL/VDSL NICs, T1/E1 NICs, 8-port GE NICs, and 4-port GE SFP NICs.

Table 1 describes the NICs and the Versa Operating SystemTM (VOSTM) software releases in which the NIC is supported.

Table 1: CSG3000 Series Appliance NIC Support

NIC Type and Model	NIC Options	Description	VOS Support
Gigabit Ethernet			
• NIC-4GP-120	4-port RJ45 copper Gigabit Ethernet PoE/PoE+, 120 W	 Support IEEE 802.3af Type 1 PoE and IEEE 802.3at Type 2 Class 4 PoE+ devices 802.3at-2009 over CAT5e. 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 21.1.1 and later
• NIC-1VB	1 RJ45 port ADSL+/VDSL, Annex B	Single-port ADSL+/VDSL module that supports Annex B (ISDN)	Releases 21.1.1 and later

NIC Type and Model	NIC Options	Description	VOS Support
T1/E1			
• NIC-4DS	4 RJ45 ports T1/E1	 Supports T1/E1 framing Supports all common formats Supports PPP, HDLC, and Frame Relay encapsulations. 	Releases 21.1.1 and later

To supplement the eight built-in PoE+ ports, you can add a 4-port copper Gigabit Ethernet PoE+ NIC, to provide a total of twelve PoE+ ports. CSG3000 series appliances and the optional 4-port PoE+ NIC support the 802.3af and 802.3at standards. Note that an external power supply unit is required for the optional 4-port PoE+ NIC.

NIC Specifications

Table 2 lists the NIC specifications for a CSG3000 series chassis.

Table 2: CSG3000 Series NIC Specifications

Item	Specification	
Power Specifications		
Typical power consumption	10 W	
System power input	3.3 VDC @3A	
PoE power adapter input	54 VDC @ 2.78A, 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		
Height	3.25" (82.55 mm)	
Width	6" (152.4 mm)	
Depth	9" (228.6 mm)	
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	
Temperature	–20 to 70°C (–4 to 158°F) at sea level	
Humidity	10 to 85% relative humidity	
Temperature	0 to 40°C (32 to 104°F)	