### NETGEAR 8-port Ultra60 PoE++ Multi-Gigabit (2.5G) Ethernet Plus Switch



# High-speed and Powerful Network with a Compact Switch

NETGEAR Plus Switches with PoE meet business networks growing needs by providing fundamental network features such as simplified VLANs, QoS set-up and IGMP Snooping that will help optimize the performance of business networks. Plus Switches are the perfect upgrade from the plug-and-play unmanaged switch, delivering essential networking features at a very affordable

price. The new model MS108EUP supports 2.5 Gigabit speed connectivity and Power-Over-Ethernet (PoE) that can provide up to 60W/port. The new switch model can power devices such as VoIP phones, surveillance IP cameras, wireless access points and many other applications. This new Plus switch includes advance PoE control to help optimize the performance and

troubleshooting of business networks. The new and improved business-friendly GUI allows easy management and simple configuration. With the growing deployment of applications and an all-in-one solution, providing management and power to these applications would be ideal.

### Highlights

- 802.3bt standard offering up to 60W/ port on Port 1-4, 802.3at (30W/port) on Port 5-8
- Enable network configuration and management at the price point of Unmanaged Switches
- Simple, yet useful network set-up on top of plug-and-play connectivity
- Business-friendly and easy-to-use web browser-based management GUI
- VLAN support for traffic segmentation
- Quality of Service (QoS) for traffic prioritization

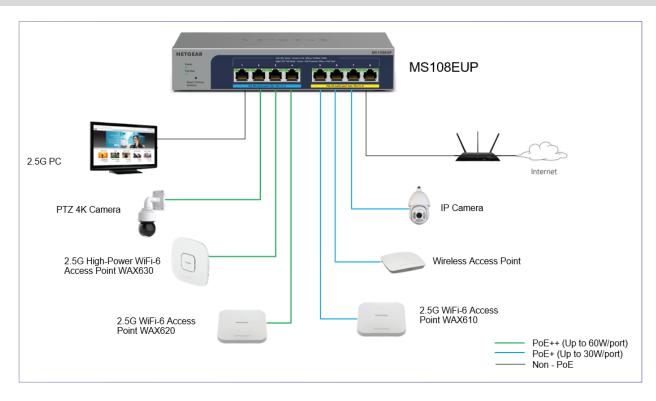
- Auto "denial-of-service" (DoS) prevention
- Troubleshoot connection issues via cable test
- Energy Efficient Ethernet (IEEE 802.3az) support for maxium power savings
- Loop prevention and broadcast storm controls
- Rate limiting for better bandwidth allocation
- Port mirroring for network monitoring
- Jumbo frame support

- Advanced features such as per port PoE controls
- Fanless, silent operation with desktop and wall-mount options
- Lifetime 24/7 Chat Technical Support\*
- Next-Business-Day Hardware Replacement\*\*
- Limited Lifetime Hardware Warranty



## **Application Sample**

Power The Devices in Your SMB Business





# **Technical Specifications**

Features	MS108EUP
1G/2.5G Ethernet RJ-45 copper ports (100M/1G/2.5G) - 1000BASE-T	8
Enclosure	Metal
Connector type	Metal
PoE	
# of PoE ports	8
# of PoE/ PoE+ / PoE++ ports	8
Total PoE/PoE+ budget	230W
Advanced PoE controls	Yes
PoE scheduling	Yes
Performance Specifications	
Forwarding modes	Store-and-forward
Bandwidth	40Gbps
Max MAC entries	16K
Buffer size	1.5MB
Energy Efficient Ethernet (IEEE 802.3az) compliant	Yes
Priority queuing	WRR
Jumbo frame support	12,000 bytes
Acoustic noise level @ 25° C (dBA) (ANSI-S10.12)	0
Mean Time Between Failures (MTBF) @ 25° C	373,644 hrs (42.6 yrs)
L2 Services - VLANs	
VLAN (# supported)	64
IEEE 802.1Q. VLAN tagging	Yes
Port-based VLANs	Yes
L2 Services - Availability	
Link aggregation/ port trunking	Yes
Number of static manual LAGs and # of members	4 LAG with max 4 members in each LAG
L2 Services - Multicast Filtering	
IGMP snooping (v1, v2 and v3)	Yes
Block unknown multicast	Yes
Supported multicast groups	128
L3 Services - DHCP	
DHCP client	Yes
Quality of Service	
Rate limiting	Yes
DSCP	Yes



# NETGEAR 8-port Ultra60 PoE++ Multi-Gigabit (2.5G) Ethernet Plus Switch

Quality of Service         MS 108EUP           IEEE 802.1p COS         Yes           Port based QOS         Yes           TOS         Yes           WRR (Weighted Round Robin)         Yes           Strict Priority queue technology         No           IEEE 802.3b Fromert         IEEE 802.3b Fromert           • IEEE 802.3b Homent         • IEEE 802.3b Tull-duplex Flow Control           • IEEE 802.3b Thement         • IEEE 802.3b Fromert           • IEEE 802.3b Tull-duplex Flow Control         • IEEE 802.3b Fromert           • IEEE 802.3b Tull-duplex Flow Control         • IEEE 802.3b Fromert           • IEEE 802.3b Tull-duplex Flow Control         • IEEE 802.3b Fromert           • IEEE 802.3b Tull-duplex Flow Control         • IEEE 802.3b Fromert           • IEEE 802.3b Tull-duplex Flow Control         • IEEE 802.3b Fromert           • IEEE 802.3b Tull-duplex Flow Control         • IEEE 802.3b Fromert           • IEEE 802.3b Tull-duplex Flow Control         • IEEE 802.3b Fromert           • IEEE 802.3b Tull-duplex Flow Control         • IEEE 802.3b Fromert           • IEEE 802.3b Tull-duplex Flow Control         • IEEE 802.3b Fromert           • IEEE 802.3b Tull-duplex Flow Control         • IEEE 802.3b Fromert           • IEEE 802.3b Tull-duplex Flow Control         • IEEE 802.3b Fromert           • IE		
Port-based QoS  TOS  WRR (Weighted Round Robin)  WRR (Weighted Round Robin)  WRR (Weighted Round Robin)  WRR (Weighted Round Robin)  Weighted Round Robin R	Quality of Service	MS108EUP
TOS         Yes           WRR (Weighted Round Robin)         Yes           Strict Priority queue technology         No           IEEE Notwork Protocols         IEEE 802.3 thromen           IEEE 802.3 throment         IEEE 802.3 throment           IEEE 802.3 th 10008ASE.T         IEEE 802.3 th Post Policy Robin Control           IEEE 802.3 to PCL P Class of Service         IEEE 802.3 th Post Policy Robin Control           IEEE 802.3 and Dynamic Link Aggregation (I.A.CP)         Yes           Web Drowser based management GUI         Yes           Very Uniformatic Post mirroring         Yes           Web Drowser based management GUI         Yes           PC utility         No           Post mirroring         Yes           Max number of source ports allowed (one-to-one port mirroring)         1           Many to-one port mirroring         No, 1-to-1 only           Cable test utility         Yes           PV Upgrade thrup bus utility (TFTP)         No           Config ownload (to switch) thru plus utility         No           Config ownload (to switch) thru plus utility         No           Per port         Speed, Link, Activity, PoE           Per device         Post Max           Pylysical Specifications         Post Max           Dimen	IEEE 802.1p COS	Yes
WRR (Weighted Round Robin)         Yes           Strict Priority queue technology         No           IEEE Revery Protocols         IEEE Revery Protocols           IEEE RES 23.3 bit Homens         IEEE RES 23.3 bit Homens           IEEE RES 23.3 bit 100BASET         IEEE 802.3 bit 100BASET           IEEE RES 20.3 al DIORASET         IEEE 802.3 bit 100BASET           IEEE 802.3 bit 100BASET         IEEE 802.3 bit 100BASET           IEEE 802.3 bit 20 bit 100BASET         IEEE 802.3 bit 100BASET           IEEE 802.3 bit 100BASET         IEEE 802.3 bit 100BASET           Ves         Wes           Weld browner based management GUI         Yes           Weld browner based management GUI         No           Coble studied in inviting (TFTP)         No	Port-based QoS	Yes
Strict Priority queue technology   No     IEEE Network Protocols     IEEE 80.23 Ethermet   IEEE 80.23 Etherwet   IEEE 80.23 Etherw	TOS	Yes
IEEE Network Protocols   IEEE 802.3 Ethernet   IEEE 802.3 Ethernet   IEEE 802.3 In Unable Steries   IEEE 802.3 In Unable S	WRR (Weighted Round Robin)	Yes
EIEE 802.3 bt 10008ASE-T	Strict Priority queue technology	No
EEEE 802.3 ab 1000BASE-T	IEEE Network Protocols	
System password Yes Web browser based management GUI Yes PC utility No Port mirroring Yes Max number of source ports allowed (one-to-one port mirroring) 1 Many-to-one port mirroring No, 1-to-1 only Cable test utility Yes FW Upgrade thru plus utility (TFTP) No Config download (to switch) thru plus utility Config download (to server) Yes ELEDS  FER port Speed, Link, Activity, PoE Per port Speed, Link, Activity, PoE Per device Power, PoE Max  Physical Specifications  Dimensions (W x D x H) (8,27 x 5.51 x 1.58 in) Weight 0.9 kg (1.984 lb)  Environmental Specifications  Poperating Temperature Operating Temperature Altitude 10,000 ft (3,000 m) maximum  Storage Storage Temperature + 4° to 158°F (-20° to 70°C) Humidity (relative) 95% maximum relative humidity (RH), non-condensing Humidity (relative) 95% maximum relative humidity (RH), non-condensing	<ul> <li>IEEE 802.3ab 1000BASE-T</li> <li>IEEE 802.3u 100BASE-T</li> <li>IEEE 802.1p Class of Service</li> <li>IEEE 802.3az Energy Efficient Ethernet (deactivated by default)</li> </ul>	<ul> <li>IEEE 802.3x Full-duplex Flow Control</li> <li>IEEE 802.3af PoE</li> <li>IEEE 802.3at PoE+</li> </ul>
Web browser based management GUI No PCutility No Port mirroring Yes  Max number of source ports allowed (one-to-one port mirroring) 1 Many-to-one port mirroring No, 1-to-1 only Cable test utility Yes  FW Upgrade thru plus utility (TFTP) No Config download (to switch) thru plus utility No Config download (to switch) thru plus utility No Config upload (to sever) Yes  EEDS  FEP rop  Speed, Link, Activity, PoE Per device Power, PoE Max  Physical Specifications  Physical Specifications  Experimental Specifications  FOPErating  Operating Temperature 32° to 104° F (0° to 40°C) Humidity (relative) 90% maximum relative humidity (RH), non-condensing Altitude 10,000 ft (3,000 m) maximum  Storage  Forage Temperature humidity (RH), non-condensing 10,000 ft (3,000 m) maximum  Storage  Forage Temperature humidity (RH), non-condensing 10,000 ft (3,000 m) maximum  Storage Temperature humidity (RH), non-condensing 10,000 ft (3,000 m) maximum  Storage Temperature humidity (RH), non-condensing 10,000 ft (3,000 m) maximum  Storage Temperature humidity (RH), non-condensing 10,000 ft (3,000 m) maximum  Storage Temperature humidity (RH), non-condensing 10,000 ft (3,000 m) maximum  Storage Temperature humidity (RH), non-condensing 10,000 ft (3,000 m) maximum  Storage Temperature humidity (RH), non-condensing 10,000 ft (3,000 m) maximum  Storage Temperature humidity (RH), non-condensing 10,000 ft (3,000 m) maximum  Storage Temperature humidity (RH), non-condensing 10,000 ft (3,000 m) maximum  Storage Temperature humidity (RH), non-condensing 10,000 ft (3,000 m) maximum 10,000 ft (3,000 m) maximum  Storage Temperature humidity (RH), non-condensing 10,000 ft (3,000 m) maximum 10,00	Management	
PC utility Port mirroring Port Port Port Port Port Speed, Link, Activity, PoE Per device Power, PoE Max Physical Specifications Port Port Port Speed, Link, Activity, PoE Port Port Power, PoE Max Physical Specifications Port Port Port Port Port Port Port Port	System password	Yes
Port mirroring Yes  Max number of source ports allowed (one-to-one port mirroring) 1 Many-to-one port mirroring No, 1-to-1 only Cable test utility Yes  FW Upgrade thru plus utility (TFTP) No Config download (to switch) thru plus utility No Config upload (to server) Yes  LEDs  Per port Speed, Link, Activity, PoE Per device Power, PoE Max  Physical Specifications  Dimensions (W x D x H) (8.27 x 5.51 x 1.58 in) Weight Derating  Poperating  Operating Temperature 32° to 104°F (0° to 40°C) Humidity (relative) 90% maximum relative humidity (RH), non-condensing Altitude 10,000 ft (3,000 m) maximum  Storage  Storage Temperature - 4° to 158°F (-20° to 70°C) Humidity (relative) humidity (RH), non-condensing	Web browser based management GUI	Yes
Max number of source ports allowed (one-to-one port mirroring)  Many-to-one port mirroring  No, 1-to-1 only  Cable test utility  Yes  FW Upgrade thru plus utility (TFTP)  No  Config download (to switch) thru plus utility  Config of word (to server)  Fer port  For port  For port  Speed, Link, Activity, PoE  Per device  Power, PoE Max  Physical Specifications  Dimensions (W x D x H)  Weight  For port  For port  Speed, Link, Activity, PoE  Power, PoE Max  Physical Specifications  Weight  O,9 kg (1,984 lb)  Environmental Specifications  Operating  Operating Temperature  June 104°F (0° to 40°C)  Humiclity (relative)  90% maximum relative humiclity (RH), non-condensing  Altitude  To 108°F (-20° to 70°C)  Humiclity (relative)  95% maximum relative humiclity (RH), non-condensing	PC utility	No
Many-to-one port mirroring No, 1-to-1 only Cable test utility Yes FW Upgrade thru plus utility (TFTP) No Config download (to switch) thru plus utility Config download (to switch) thru plus utility Config upload (to server) Yes  LEDS  Fer port Speed, Link, Activity, PoE Per device Power, PoE Max  Physical Specifications  Dimensions (Wx D x H) 210 x 140 x 40 mm (8.27 x 5.51 x 1.58 in) Weight 0,9 kg 1,984 lb)  Environmental Specifications  Operating Temperature 32° to 104°F (0° to 40°C)  Humicity (relative) 90% maximum relative humicity (RH), non-condensing  Altitude 1,000 ft (3,000 m) maximum  Storage  Storage Temperature - 4° to 158°F (-20° to 70°C) Humicity (relative) 95% maximum relative humicity (RH), non-condensing	Port mirroring	Yes
Cable test utility Yes  FW Upgrade thru plus utility (TFTP) No  Config download (to switch) thru plus utility  Config download (to switch) thru plus utility  Config upload (to sever)  Fer port  Fer port  Fer device  Power, PoE Max  Physical Specifications  Physical Specifications  Dimensions (W x D x H)  Environmental Specifications  Coperating  Operating  Operating Temperature  Altitude  Altitude  Altitude  Storage  Storage Temperature  - 4° to 158°F (-20° to 70°C)  Hunicity (relative)  Hunicity (relative)  Fyes  No  No  No  No  No  No  Speed, Link, Activity, PoE  Power, PoE Max  Po	Max number of source ports allowed (one-to-one port mirroring)	1
FWUggrade thru plus utility (TFTP)  Config download (to switch) thru plus utility  Config upload (to switch) thru plus utility  Config upload (to server)  Fyes  LEDs  Per port  Speed, Link, Activity, PoE  Per device  Power, PoE Max  Physical Specifications  Dimensions (W x D x H)  210 x 140 x 40 mm (8.27 x 5.51 x 1.58 in)  Weight  Coperating  Environmental Specifications  Operating  Operating  Operating Temperature  Altitude  10,000 ft (3,000 m) maximum  Storage  Storage Temperature  - 4° to 158°F (-20° to 70°C)  Hunidity (relative)  95% maximum relative humidity (RH), non-condensing	Many-to-one port mirroring	No, 1-to-1 only
Config download (to switch) thru plus utility Config upload (to server)  Config upload (to server)  Config upload (to server)  Config upload (to server)  Per port  Speed, Link, Activity, PoE  Per device Power, PoE Max  Physical Specifications  Dimensions (W x D x H) 210 x 140 x 40 mm (8.27 x 5.51 x 1.58 in)  Weight 0.9 kg (1.984 lb)  Coperating  Coperating  Coperating Temperature 32° to 104°F (0° to 40°C)  Humidity (relative) 90% maximum relative humidity (RH), non-condensing  Altitude 10,000 ft (3,000 m) maximum  Storage  Storage Temperature -4° to 158°F (-20° to 70°C) Humidity (relative) humidity (RH), non-condensing	Cable test utility	Yes
Config upload (to server)  LEDs  Per port Speed, Link, Activity, PoE Per device Power, PoE Max  Physical Specifications  Dimensions (W x D x H) Speed, Link, Activity, PoE Prover, PoE Max  Physical Specifications  Dimensions (W x D x H) Specifications  Weight Specifications  Weight Specifications  Operating  Operating Operating Temperature Specifications  90% maximum relative humidity (RH), non-condensing altitude Storage Temperature Storage Temperature Storage Temperature Storage Temperature Specifications  95% maximum relative humidity (RH), non-condensing altitude and specifications  95% maximum relative humidity (RH), non-condensing altitude and specifications  Storage Temperature Storage Temperature Specifications  95% maximum relative humidity (RH), non-condensing altitude and specifications are specifications and specifications are specifications and specifications are specifications and specifications are specifications are specifications and specifications are	FW Upgrade thru plus utility (TFTP)	No
LEDsPer portSpeed, Link, Activity, PoEPer devicePower, PoE MaxPhysical Specifications210 x 140 x 40 mm (8.27 x 5.51 x 1.58 in)Dimensions (Wx Dx H)210 x 150 x 150 x 150 in)Weight0.9 kg (1.984 lb)Environmental SpecificationsVery state of the properties of	Config download (to switch) thru plus utility	No
Per port Speed, Link, Activity, PoE Per device Power, PoE Max  Physical Specifications  Dimensions (W x D x H) 210 x 140 x 40 mm (8.27 x 5.51 x 1.58 in)  Weight 0.9 kg (1.984 lb)  Environmental Specifications  Operating Operating Temperature 32° to 104°F (0° to 40°C)  Humidity (relative) 90% maximum relative humidity (RH), non-condensing  Altitude 10,000 ft (3,000 m) maximum  Storage Storage Temperature - 4° to 158°F (-20° to 70°C)  Humidity (relative) 95% maximum relative humidity (RH), non-condensing	Config upload (to server)	Yes
Per device Power, PoE Max  Physical Specifications  Dimensions (W x D x H) 210 x 140 x 40 mm (8.27 x 5.51 x 1.58 in)  Weight 0,9 kg (1.984 lb)  Environmental Specifications  Operating Operating Temperature 32° to 104°F (0° to 40°C)  Humidity (relative) 90% maximum relative humidity (RH), non-condensing Altitude 10,000 ft (3,000 m) maximum  Storage Storage Temperature -4° to 158°F (-20° to 70°C) Humidity (relative) 95% maximum relative humidity (RH), non-condensing	LEDs	
Physical Specifications  Dimensions (W x D x H)  210 x 140 x 40 mm (8.27 x 5.51 x 1.58 in)  Weight  0.9 kg (1.984 lb)  Environmental Specifications  Operating  Operating Temperature  32° to 104°F (0° to 40°C)  Humidity (relative)  90% maximum relative humidity (RH), non-condensing  Altitude  Storage  Storage Temperature  -4° to 158°F (-20° to 70°C)  Humidity (relative)  95% maximum relative humidity (RH), non-condensing	Per port	Speed, Link, Activity, PoE
Dimensions (W x D x H)  210 x 140 x 40 mm (8.27 x 5.51 x 1.58 in)  Weight  0.9 kg (1.984 lb)  Environmental Specifications  Operating  Operating Temperature  132° to 104°F (0° to 40°C)  Humidity (relative)  90% maximum relative humidity (RH), non-condensing  Altitude  10,000 ft (3,000 m) maximum  Storage  Storage Temperature  - 4° to 158°F (-20° to 70°C)  Humidity (relative)  95% maximum relative humidity (RH), non-condensing	Per device	Power, PoE Max
Keight         0.9 kg (1.984 lb)           Environmental Specifications         Operating           Operating Temperature         32° to 104°F (0° to 40°C)           Humidity (relative)         90% maximum relative humidity (RH), non-condensing           Altitude         10,000 ft (3,000 m) maximum           Storage         Storage Temperature         -4° to 158°F (-20° to 70°C)           Humidity (relative)         95% maximum relative humidity (RH), non-condensing	Physical Specifications	
Environmental Specifications  Operating Operating Temperature 32° to 104°F (0° to 40°C) Humidity (relative) 90% maximum relative humidity (RH), non-condensing Altitude 10,000 ft (3,000 m) maximum  Storage Storage Temperature -4° to 158°F (-20° to 70°C) Humidity (relative) 95% maximum relative humidity (RH), non-condensing	Dimensions (W x D x H)	
Operating         Operating Temperature       32° to 104°F (0° to 40°C)         Humidity (relative)       90% maximum relative humidity (RH), non-condensing         Altitude       10,000 ft (3,000 m) maximum         Storage       - 4° to 158°F (-20° to 70°C)         Humidity (relative)       95% maximum relative humidity (RH), non-condensing	Weight	0.9 kg (1.984 lb)
Operating Temperature 32° to 104°F (0° to 40°C)  Humidity (relative) 90% maximum relative humidity (RH), non-condensing  Altitude 10,000 ft (3,000 m) maximum  Storage  Storage Temperature -4° to 158°F (-20° to 70°C)  Humidity (relative) 95% maximum relative humidity (RH), non-condensing	Environmental Specifications	
Humidity (relative) 90% maximum relative humidity (RH), non-condensing Altitude 10,000 ft (3,000 m) maximum  Storage  Storage Temperature - 4° to 158°F (-20° to 70°C)  Humidity (relative) 95% maximum relative humidity (RH), non-condensing	Operating	
Altitude 10,000 ft (3,000 m) maximum  Storage  Storage Temperature -4° to 158°F (-20° to 70°C)  Humidity (relative) 95% maximum relative humidity (RH), non-condensing	Operating Temperature	32° to 104°F (0° to 40°C)
Storage       Storage Temperature     - 4° to 158°F (-20° to 70°C)       Humidity (relative)     95% maximum relative humidity (RH), non-condensing	Humidity (relative)	90% maximum relative humidity (RH), non-condensing
Storage Temperature - 4° to 158°F (-20° to 70°C)  Humidity (relative) 95% maximum relative humidity (RH), non-condensing	Altitude	10,000 ft (3,000 m) maximum
Humidity (relative) 95% maximum relative humidity (RH), non-condensing	Storage	
	Storage Temperature	- 4° to 158°F (-20° to 70°C)
Altitude 10,000 ft (3,000 m) maximum	Humidity (relative)	95% maximum relative humidity (RH), non-condensing
	Altitude	10,000 ft (3,000 m) maximum



## NETGEAR 8-port Ultra60 PoE++ Multi-Gigabit (2.5G) Ethernet Plus Switch

Electromagnetic Emissions and Immunity	MS108EUP
Certifications	CE mark FCC Part 15 class B CE/EN55032/24 CSA VCCI ACMA KC CCC BSMI
Warranty and Support	
Hardware warranty (All except China/India)	Limited lifetime warranty
China/India	1-year warranty
External power adapter warranty	N/A
Technical support (online, phone)	90 days free technical support with registration
ProSUPPORT OnCall 24x7 service plans	Category 2 PMB0312-10000S PMB0332-10000S PMB0352-10000S
Package Contents	
All Models	<ul> <li>NETGEAR Plus Switch</li> <li>Power adapter(power cable varies by region)</li> <li>Wall installation kit</li> <li>Rubber feet</li> <li>Installation guide</li> </ul>

NETGEAR, the NETGEAR Logo, and NETGEAR Insight are trademarks of NETGEAR, Inc. in the United States and/or other countries. Other brand names mentioned herein are for identification purposes only and may be trademarks of their respective holder(s). Information is subject to change without notice. ©NETGEAR, Inc. All Rights reserved. NETGEAR, Inc. 350 E. Plumeria Drive, San Jose, CA 95134-1911 USA, 1-888-NETGEAR (638-4327), E-mail: info@NETGEAR.com, www.NETGEAR.com

<sup>\*</sup>This product comes with a limited warranty that is valid only if purchased from a NETGEAR authorized reseller, and covers unmodified hardware, fans and internal power supplies - not software or external power supplies, and requires product registration at https://www.netgear.com/business/registration within 90 days of purchase; see https://www.netgear.com/about/warranty for details. Intended for indoor use only.

<sup>&</sup>quot;The NETGEAR OnCall 24x7 contract provides unlimited phone, chat and email technical support for your networking product.