

N560 series



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2BASE-TL EFM EDD (Ethernet Demarcation Device)

NexComm Systems' N560 series extends the reach of Ethernet services to remote sites by using bonded copper pairs. Designed with standard-based EFM technology (2BASE-TL), N560 series cost-effectively allows service providers and enterprises to deliver Ethernet services with symmetrical bandwidth at rates up to 45.6 Mbps. The delivery of Ethernet services with N560 series can be made quickly by using existing copper plant.

Key Feature

- 11.4 Mbps per pair
- EFM Bonding (PAF) up to 45.6 Mbps (4 pairs)
- IEEE 802.3ah compliant
- Ethernet Demarcation
- Add Drop configuration supporting linear hop configuration
- Flexible configuration – CPE or CO
- Low Delay, Jitter and Packet Loss for delay sensitive application
- EFM OAM support
- QoS feature for guaranteed Ethernet service

Application

- Metro Ethernet Extension (E-Line, E-LAN Services)
- Ethernet Demarcation Device (EDD) Application
- Transparent LAN Service
- Fast Internet Access
- MDU/MTU Backhaul
- Remote DSLAM Backhaul
- Wireless (Mobile / Wi-Fi) Backhaul
- Cost effective replacement for E1/T1, bundle E1/T1

Extending Ethernet Services to sites with existing copper infrastructure –

Service Providers and enterprises can offer symmetrical, broadband connectivity for transparent Ethernet service, DSLAM backhaul, Wireless backhaul, and the more. By leveraging existing copper infrastructure and unparalleled EFM bonding technology, N560 series can bond up to 4 pair and deliver up to 45 Mbps Ethernet services to all users within their service area.

Increased Flexibility in Deployment –

N560 series operates mainly in Point-to-Point configuration. It can be configured in either COE or CPE mode giving users significant flexibility in installation.

Lower CAPEX and Quick Return on Investment –

With a compact form-factor design and optimization for the use over existing copper network, N560 series reduces the initial investment cost and deployment time in delivering higher speed Ethernet service. It provides minimized risk bearing and quick return on investment to service providers and enterprises.

Comprehensive and easy OAM & P functions in provisioning and managing –

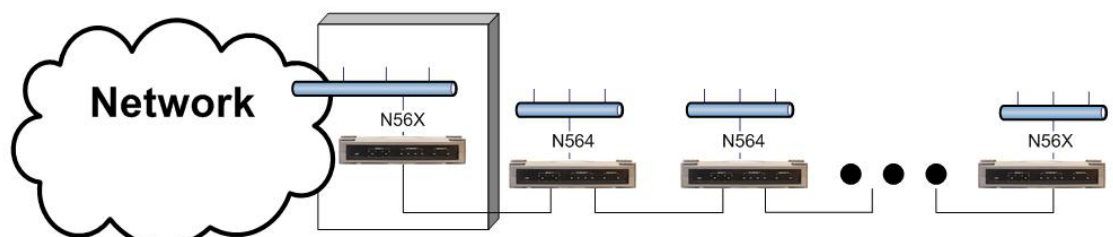
The N560 series implements IEEE 802.3ah standard and the vendor extended management features. It enables users to significantly reduce OPEX by eliminating unnecessary truck roll costs and additional training costs as it is based on user-friendly Ethernet technology. N560 series is interoperable with any standard Fast Ethernet interfaces from switches, routers, and NG-SONET/SDH Equipment. And the fast Ethernet interface enable N560 series to work as a smart Ethernet Demarcation Device as well. Ethernet demarcation is necessary at carrier to customer interface (UNI) to provide separation between carrier WAN and enterprise LAN by monitoring network status and operation at the customer site. N560's management interfaces include comprehensive command-line interface (CLI), user-friendly GUI-based web browser interface, SNMP and Telnet.

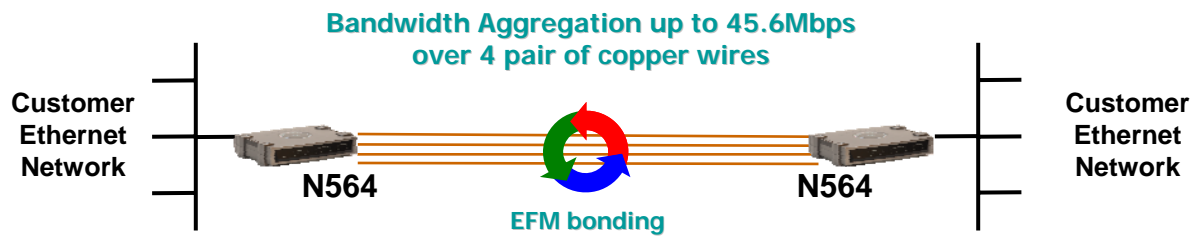
Future-proof Ethernet traffic management and QoS features –

The N560 series provides future-proof features meeting Ethernet Quality of Service (QoS) and Class of Service (CoS) requirements by utilizing 802.1q VLAN and DSCP capabilities, stacked VLANs (Q-in-Q), four levels of priorities, traffic flow control and rate control. This traffic management and QoS features enable service providers to offer highly profitable and value-added services to a vast majority of business and institutional sites.

Add Drop Configuration supporting linear hop configuration –

Easily extend Ethernet over Copper connectivity in linear way up to 30 hops without causing delay in data transmission. This configuration is quite popular in Railway industry.





Specification

Mechanical & Power Requirement

- Dimension (mm) : 238(W) X 182(D) X 47(H)
- Weight : 0.8 Kg
- Power: DC 5V 3.0A

Network Interfaces

- LAN
 - 4 X 10/100BASE-T Ports (RJ45)
 - Auto MDI/MDIX
- Fiber Optic (N560F Only)
 - 100BASE-FX (IEEE802.3u)
 - 2 X SFP LC type connectors
 - SFP MSA & SFF-8472 specification
- WAN
 - ITU-T G.991.2. (G.shdsl.bis 2004)
 - 2BASE-TL, 64/65o encoding
 - EFM bonding (IEEE 802.3ah PAF)
 - Dual Interface over DSL (except N560F)
 - RJ45 connector
 - Max 45.6 Mbps (11.4 Mbps / Port)

Management Interfaces

- Console (RJ-45)
- Web Browser (HTTP), SNMPv1, Telnet
- EFM OAM
- RCMP (Remote Control & Management Protocol)

LAN Protocols

- 802.1d Transparent Bridging
- up to 8K MAC Addresses

VLAN Support

- Port-based & Tag-based (802.1Q)
- up to 4096 VLANs
- Double Tagging (Q-in-Q)
- VLAN Trunk mode

QoS Support

- Ingress rate control
- Egress traffic shaping
- Classification based on Port/802.1p/DSCP
- 4 Priority Queues
- Strict Priority
- Simple WFQ

Production & Regulatory

- ISO 9001 Quality Management
- ISO 14001 Environmental Management
- TL 9000 Quality Management
- CE Approval
- VCCI Approval
- RoHS compliant

Environment

- Operating Temperature : 0° ~ +50°C
- Storage Temperature : -40° ~ +85°C
- Relative Humidity : 95%, non-condensing

Ordering Information

- N564: 4-pair 2BASE-TL EFM EDD
- N562: 2-pair 2BASE-TL EFM EDD

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* Specification is subject to change without prior notice.

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