



# N550A Series

## 2BASE-TL EFM EDD (Ethernet Demarcation Device)

NexComm Systems' N550 series extends the reach of Ethernet services to sites with no access to fiber by using bonded copper pairs. Designed with standard-based EFM technology (2BASE-TL), N550 Series cost-effectively allows service providers and enterprises to deliver Ethernet services with symmetrical bandwidth at rates up to 22.8 Mbps. The delivery of Ethernet services with N550 Series can be made quickly by using existing copper plant.

### Key Feature

- Extended operating temperature
- 5.7 Mbps per pair
- EFM Bonding (PAF) up to 22.8 Mbps (4 pairs)
- IEEE 802.3ah Compliant
- Ethernet Demarcation
- 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

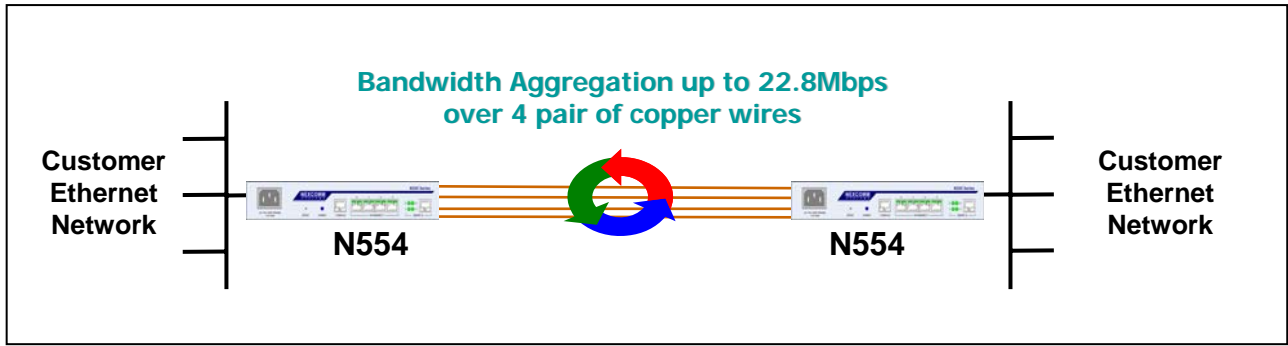
**Extending Ethernet Services to Sites With existing copper infrastructure** – Service Providers and enterprises can offer symmetrical, broadband connectivity for transparent Ethernet service, DSLAM backhaul, Wireless backhaul, and the more. By leveraging existing copper infrastructure and unparalleled EFM bonding technology, N550 Series can bond up to 4 pair and deliver 1 to 22 Mbps Ethernet services to all users within their service area.

**Increased Flexibility in Deployment** – N550 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, N550 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 N550 Series implements IEEE 802.3ah standard and the vendor extended management features based on this standard. 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. N550 Series is interoperable with any standard Fast Ethernet interfaces from switches, routers, and NG-SONET/SDH Equipment. And the fast Ethernet interface enable N550 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. N550'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 N550 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.



- Mechanical & Power Requirement**
- All front Access
  - Dimension (mm) : 256(W) X 170(D) X 43(H)
  - Weight : 2.5 Kg
  - 19" Rack Mountable (Optional)
  - AC 85 ~ 264 V, 45 ~ 65 Hz
  - DC 5V 3.0A (Optional External adaptor) <sup>[1]</sup>

- Network Interface**
- LAN
    - 4 X 10/100BASE-T Ports (RJ45)
    - Auto MDI/MDIX
  - WAN
    - ITU-T G.991.2. (2004)
    - 2BASE-TL, 64/65o encoding
    - EFM bonding (IEEE 802.3ah PAF)
    - RJ45 Connector
    - Max 22.8 Mbps (5.7 Mbps / Port)

- Environment**
- Operating Temperature : 0° ~ +50°C
  - Extended Operating Temperature: -40° ~ +65°C <sup>[2]</sup>
  - Storage Temperature : -40° ~ +85°C
  - Relative Humidity : 95%, non-condensing

- LAN Protocols**
- 802.1d Transparent Bridging
  - up to 8K MAC Addresses

**NEXCOMM**  
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- Management Interface**
- Console (RS-232, RJ-45)
  - Web Browser (HTTP), SNMP, Telnet
  - EFM (IEEE 802.3ah) OAM
  - RCMP (Remote Control & Management Protocol)

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

- QoS Support**
- 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
  - CE Approval
  - VCCI Approval

- Ordering Information** <sup>[3]</sup>
- N554A: 4-pair 2BASE-TL EFM EDD
  - N552A: 2-pair 2BASE-TL EFM EDD
  - N551A: 1-pair 2BASE-TL EFM EDD

**Note**

[1] For a model with external power adapter, please contact NexComm Sales

[2] For a model with extended operating temperature, please contact NexComm Sales

[3] Models with suffix "A" are with embedded AC power module.

\* For information regarding pricing and ordering options, please contact NexComm sales.