N4224

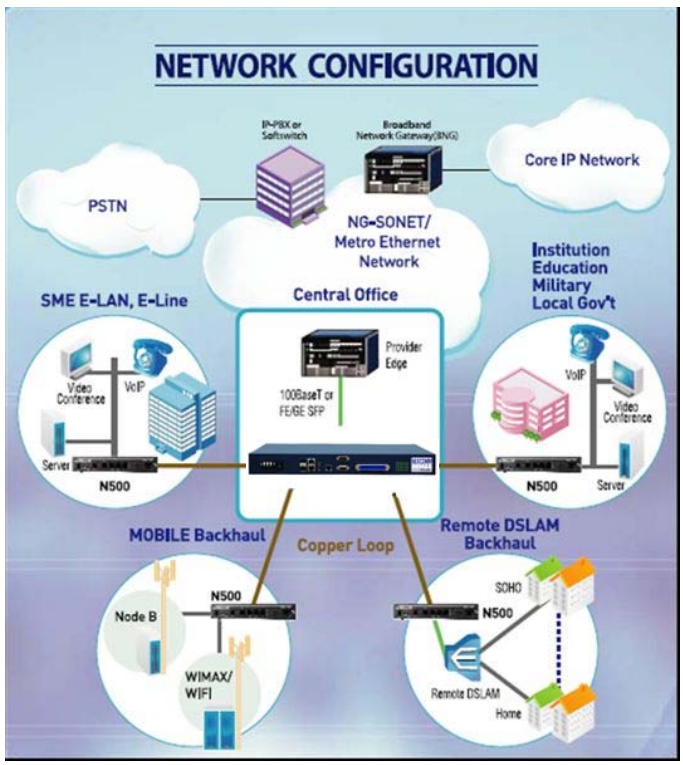
2BASE-TL-Base EFM Access Concentrator

NexComm Systems' N4224 is twenty-four port EFM Access Concentrator that delivers symmetric data rates up to 22.8Mbps, using EFM bonding technology with up to 4 copper pairs. This 1U compact form factor solution enables Service Provider or Enterprises customer to deliver fiber-like Ethernet connectivity service to sites where fiber is not fed.

Compact, Cost-effective EFM Access Concentrator enables the existing network can be evolved into the next generation network in a very cost effective way. In addition, this Ethernet technology can make access network more scalable, meeting the requirement of today's bandwidth intensive application.

End-to-End management provide Carrier grade Ethernet SLA – The N4224 implements IEEE 802.3ah standard and the vendor extended management features based on the 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. N4224 is interoperable with Fast and Gigabit Ethernet interfaces from switches, routers, and NG-SONET/SDH equipment. In addition, N560 CPE series can work as a smart Ethernet Demarcation Device which is necessary for carriers to provide separation between carrier WAN and enterprise LAN by monitoring network status and operation at the customer site. N4224's management interfaces include Web-based GUI and SNMP.

Future-proof Ethernet traffic management and QoS features – The N4224 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 carriers to offer highly profitable and value-added services to a vast majority of business and institutional customers.



Application

- Metro/Carrier Ethernet Extension (E-Line, E-LAN Services)
- Ethernet Demarcation Device (EDD) Application
- Transparent LAN Service
- Fast Internet Access
- Wireless Backhaul ($3G^+$ / 4G)

Key Feature

- ATM/EFM mode selectable
- 2-wire / 4-wire / 6-wire / 8-wire mode selectable EFM OAM support
- EFMC up to 22.8Mbps (4 pairs) by using EFMC Bonding (PAF)
- IEEE 802.3ah compliant
- QoS feature for guaranteed Ethernet service

Specification

Mechanical
- Dimension (mm) : 44(H)×440(W)×300(D)
- 1U height and 19" Rack Mountable
- Weight : 4.5kg

Power Requirement
- 90 to 240VAC, 50/60Hz / -42 to -56VDC (Optional)
- Max Power Consumption: 70 Watts

Environmental
- Operating Temperature : 0° ~ 60°C
- Relative Humidity : Up to 90%, non-condensing

Line Interface

UpLink (Network Side)
- Electrical Giga Ethernet Ports (ETH0 and ETH1) RJ45
- Optical Giga Ethernet Ports (ETH0 and ETH1) SFP Cage
- Management Ethernet port (10/100Mbps)

EFM 2BASE-TL (Subscriber Side)
- 24 port (24 pair)
- 1-pair up to 5.7Mbps
- 2-pair EFM bonding: up to 11.4Mbps
- 3-pair EFM bonding up to 17Mbps
- 4-pair EFM bonding: up to 22.8Mbps
- ITU-T G.991.2 (TC-PAM16, 32)
- Support Annex A, Annex B, Annex F, and Annex G

Management & Maintenance
- Local Console, RS-232
- Web-Based GUI
- SNMPv1&2c, MIB-II
- Firmware Upgradeable
- Access Control
- Fan Status Monitoring
- Board Temperature Monitoring

Protocols
- IEEE 802.1x
- IEE 802.3ad LACP
- Manual or auto rate selectivity
- IGMP v1/v2/v3 snooping and proxy
- IEEE 802.1D, IEEE 802.1Q, IEEE 802.1p
- VLAN Stacking (Q-in-Q)
- STP (802.1D), RSTP (802.1w) → Uplink Interface
- SNTP client
- Syslog Client

Approval

EMC
- FCC Part 15 Class A
- CE-EMC Class A
- VCCI Class A

Safety
- EN60950-1
- ITU-T K.20

Production & Regulatory
- ISO 9001 Quality Management
- ISO 14001 Environmental Management
- RoHS compliant

NEXCOMM SYSTEMS

C-501, Bundang Techno-Park, 145 Yatap-Dong, Bundang-Ku, Sungnam-City, Kyunggi-Do, 463-760, Korea
Phone: +82.31.781.1862/ Fax: +82.31.781.1863
E-mail: sales@nexcomm.co.kr
URL: www.nexcomm.co.kr

* Specification is subject to change without prior notice.