N5000

Multi-Service Access Platform (MSAP)

NexComm Systems' N5000 is a carrier-class Multi-Service Access Platform that bridges the gab between legacy and the next generation networks. By utilizing innovative Ethernet in the First Mile (EFM) technology, N5000 provides existing and forthcoming service interface over copper and fibre.

Being based on the Native Ethernet technology, 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.

Future-proof Ethernet traffic management and QoS features – The N5000 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.

Comprehensive and easy OAM & P functions in provisioning and managing – The N5000 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. N5000 is interoperable with Fast and Gigabit Ethernet interfaces from switches, routers, and NG-SONET/SDH equipment. In addition, N5xx 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. N5000's management interfaces include NexView™ EMS, comprehensive command-line interface (CLI), SNMP and Telnet.

Key Feature

- Carrier Ethernet Access over Copper and Fibre
- EFMC up to 45 Mbps (4 pairs) by using EFMC Bonding (PAF)
- EFMF up to 100 Mbps
- CESoE for E1/T1 transport over Ethernet (Integration with partner's solution)
- IEEE 802.3ah Compliant
- Low Delay, Jitter and Packet Loss for delay sensitive application
- EFM OAM support
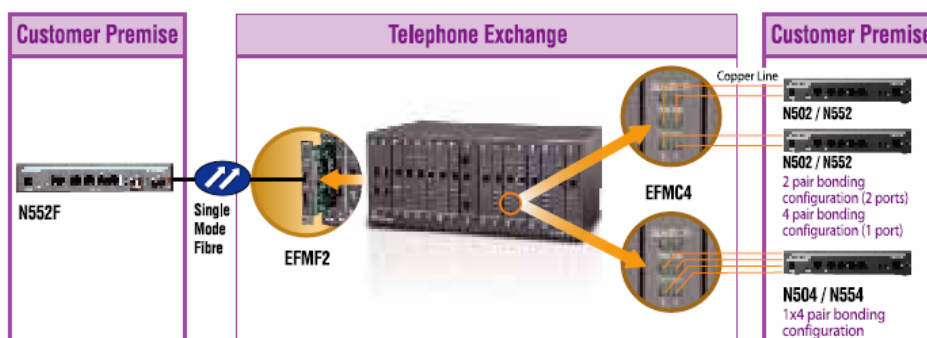- QoS feature for guaranteed Ethernet service

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 Backhaul (3G+ / 4G)

System Configuration

Specification

Mechanical
- Dimension (mm) : 483(W), 175(H), 245(D)
- 4U height and 19" Rack Mountable,
- 6 robust and removable cooling fans

Power Requirement
- Dual A + B redundant power feed
- Power Input: -36 ~ -76 Vdc
- Max Power Consumption: 150 Watts
- Redundant AC Power Supply (Optional)

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

System Configuration
- Sixteen Line Modules to subscriber side
- Control & Switching Module (CSM) to network side
- Uplink : 2 x 1GbE

Line Module (Subscriber Side)
- EFMC4: 2BASE-TL Module
    - Enhanced G.SHDSL / G.SHDSL.bis
    - EFM Bonding (IEEE802.3ah PAF)
    - TC-PAM/16, 32, 64, 11.4Mpbs per pair

- EFMF2: EFM Fibre Module
    - 2 x Small Form-factor Pluggable (SFP) Cages
    - 100Base-FX (4B/5B or 8B/10B coding)

* Optional Module: Circuit Emulation Module (CEM)
    - Integration with partner's solution
    - Up to 2 x E1/T1 (G.703/G.704)
    - CESoPSN or SAToP

Line Module (Network Side)
- CSM: Control & Switching Module
    - Two or One 100BaseFX or 1000BaseX (GigE), SFP Cages
    - One 10/100/1000 BaseT Ethernet Port, RJ45 (Optional)

Management Interface
- Craft Interface: RS-232 (RJ45) ,
- SNMPv2&3, Telnet (Ethernet port, In-band VLAN Management)
- EFM (IEEE 802.3ah) OAM

VLAN Support
- Port-based & Tag-based (802.1Q)
- Up to 4096 VLANs
- Double Tagging (Q-in-Q)
- Priority Remapping

QoS Support
- Rate control
- Egress Traffic Shaping
- Classification based on Port/802.1p/DSCP
- 4 Priority Queues
- Strict Priority
- Simple WFQ

Multicast Support
- IGMP Snooping : 16 channels per Line Module

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

Ordering Information
- N5000 Chassis: Basic Chassis with FAN tray
- CSM: Control and Switching Module
- EFMC4: 4-port 2BASE-TL Module
- EFMF2: 2-port EFM fibre Module

Note
* For information regarding pricing and ordering options, please contact NexComm Sales Team , sales@nexcomm.co.kr

* Specification is subject to change without prior notice.

NEXCOMM
S Y S T E M S

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