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PRODUCT DATASHEET

GIGACOPPER

24-Port GigaCopper Access Multiplexer

NA2024T

G.hn Wave2 GAM for gigabit over telephone and UTP pairs



24	SISO / MIMO	2 × 10G	80 W
G.hn copper ports	2- or 4-wire	SFP+ uplinks	full load

OVERVIEW

The NA2024T brings gigabit access to buildings wired with copper pairs. Its 24 G.hn Wave2 ports run over existing bundled Cat3 pairs or Cat5/5e UTP in the riser, using SISO on one pair or MIMO on two pairs for maximum rate.

Dual 10G SFP+ uplinks, SYNC inputs and a pluggable power supply and fan module make it suitable for carrier comms rooms. Pair it with VectorBoost to manage crosstalk across dense cable binders.

KEY FEATURES

- Gigabit over bundled 2-pair/4-pair phone line or UTP (Cat3/5/5e)
- 2-wire SISO and 4-wire MIMO per port
- Pluggable power (AC or 48 VDC) and fan modules
- SYNC BNC inputs for multi-GAM crosstalk coordination
- Managed L2 with per-subscriber QoS, IPTV multicast and Option 82

SPECIFICATIONS

Hardware

Architecture	24-port G.hn Wave2 twisted-pair GAM
G.hn ports	24 × RJ45, SISO or MIMO
Uplink	2 × 1000-X / 10G-X SFP/SFP+
Ethernet	1 × 10/100/1000BASE-T RJ45
Console	1 × RS232 (RJ45), 1 × USB Type-C
Sync	2 × SYNC BNC
Power	100–240 VAC 50/60 Hz or 48 VDC, pluggable module
Cooling	Pluggable fan module
LEDs	Power, system, SYNC, fan, SFP link/act, management link/act, G.hn link
Dimensions	1U · 440 × 268 × 44 mm, 19" rack mount
Weight	< 5.2 kg
Power consumption	80 W full load

Environment

Operating temperature	−20 °C to 60 °C
Storage temperature	−25 °C to 80 °C
Operating humidity	5% to 95% RH non-condensing

G.hn performance

Technology	ITU-T G.hn Wave2

Line modulation	OFDM (Orthogonal Frequency Division Multiplexing)
Spectrum	2–200 MHz SISO · 2–100 MHz MIMO
Wire modes	2-wire SISO and 4-wire MIMO
Spectrum management	– Power-mask notching – Dynamic PSD – NDIM (neighbour-domain interference mitigation) radio-band notching – NEXT (near-end crosstalk) mitigation

Switching

MAC table	16K
VLANs	4K, 256 VLAN groups
Layer 2	– 802.1w RSTP, MSTP – 802.1D Spanning Tree – 802.1Q VLAN – 802.3ad link aggregation (8 groups × 8 members) – Jumbo frames up to 9K

Multicast & DHCP

Multicast	– IGMP snooping v1/v2 – Up to 512 multicast groups – Multicast traffic block / filtering – Protection from malicious multicast on subscriber ports
DHCP	– DHCP request-flood protection (snooping rate-limit) – Option 82 — Circuit-ID: subscriber port · Remote-ID: relay MAC

Security, QoS & ACL

Security	– DLF / broadcast protection – DHCP, MAC and NetBIOS/NetBEUI/NBT filtering – IP/TCP/UDP port filtering – Flooding protection (static MAC, MAC count) – Control-packet classification – 8 CPU queues with CPU rate-limit
QoS	– L2 classification: src/dst MAC, VLAN ID, CoS – L3 classification: src/dst IP, DSCP – 8 queues per port – SPQ, WRR, SPQ + SDWRR – DSCP marking / remarking
ACL	128 ingress ACL entries

Management

Interfaces	– Web GUI – CLI via console and Telnet – Three administrator privilege levels
Protocols	– SNMP v1/v2c/v3 and traps – RMON, Syslog, SNTP – TFTP – Port mirroring
Operations	– Remote firmware upgrade for headend and CPE – Configuration backup / restore – Factory restore and reboot – SFP/SFP+ DDMI diagnostics

ORDERING INFORMATION

NA2024T	24-port G.hn Wave2 twisted-pair GAM: 24 × RJ45 (SISO/MIMO), 2 × SFP/SFP+, 1 × GE; data only, no PSTN pass-through

Related products: NA2001T · NA2001TM

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