

Catalyst 3000 100VG AnyLAN Modules

100VG Module for the Catalyst 3000 Family

Cisco's Catalyst™ 3000 family 100VG modules provide flexibility, performance, and manageability in cost-effective packages. These modules are available in fiber (ST connectors) and unshielded twisted-pair (UTP RJ-45 connectors) versions.

The Catalyst 3000 family supports a broad offering of network connection options, including 10-Mbps Ethernet, 155-Mbps ATM, and 100-Mbps Fast Ethernet. With the installation of a 100VG module in any member of the Catalyst 3000 switch family, 100VG-AnyLAN servers, workgroups, or hubs can be integrated easily with other Ethernet, Fast Ethernet and ATM devices.

All 100VG modules provide wire-speed performance for network connection of 100VG servers, workstations, and 100VG hubs. Both the UTP and fiber versions of the 100VG module offer superior performance in forwarding, buffering, and per-port addresses to meet the needs of demanding network applications.

Figure 1 Two port UTP and fiber 100VG modules



Features and Benefits

- Exceptional throughput and low latency for applications demanding high-performance, wire-speed switching
- Superior traffic-handling capability for switched networks; large buffer capacity—256K inbound and 256K outbound per port—for a total per-port buffer capacity of 512K
- Large address capacity per port, up to 1700 addresses; designed for use in backbone or server applications; demand-aging feature that ages out older addresses based on user-selected parameters
- Supports the Ethernet Management Information Base (MIB); characterizes per-port broadcast packets, IEEE 802.12 statistics, octets, and utilization
- Supports IEEE 802.1d spanning tree for network loop detection, disabling, and redundant, fault-tolerant connectivity
- Easy module installation and setup
- Power-up diagnostics aid troubleshooting; ensures reliable, trouble-free networks

100VG Module Specifications

Buffers and Addressing

- 1700 addresses per port
- 256K input buffers
- 256K output buffers

Maximum Station-to-Station Cabling Distance

- 100VG: Category 3 or 5 UTP: 328 ft. (100m)
- 100VG fiber, half-duplex operation: 62.5/125 micron fiber: 2.0 km. (1.24 miles)

LED Indicators

- Transmit (green)
- Receive (green)
- Fault (orange)

Interfaces

- Dual-port 100VG UTP: RJ-45 (female), UTP Category 3 or 5
- Dual-port 100VG Fiber: ST multimode fiber connector (female)
 - Wavelength 1300 nm
 - Optical RX sensitivity: Max: -29 dBm @ 62.5/125 micron fiber
 - Optical RX sensitivity: Min: -14 dBm @ 62.5/125 micron fiber
 - Optical TX output power: Max: -14 dBm @ 62.5/125 micron fiber
 - Optical TX output power: Min: -21 dBm @ 62.5/125 micron fiber

Physical Specifications

- Each two-port module occupies one expansion module slot in the Catalyst 3000 or Catalyst 3200 router
- Dimensions: (H x W x D) 0.9 x 6.3 x 8.6 in. or (2.4 x 16 x 21.9 cm)
- Weight: 10.10 oz (286.3 g)

Power Requirements

- 100VG UTP: 2A @ 5V
- 100VG Fiber: 2A @ 5V

Environmental Conditions

- Operating Temperature: 5 to 40 C
- Nonoperating Temperature: -40 to 70 C
- Relative Humidity: 15 to 80% at 40 C noncondensing
- Storage Altitude: 10,000 ft.

Electromagnetic Emissions Certifications

- FCC Part 15 Class A
- EN55022/CISPR-22 Class A
- VCCI 1
- Canadian EMC Class A



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