Data Sheet

The Cisco AS5100: High-Performance, High-Reliability Enterprise Access

Cisco Systems has been instrumental in expanding the Internet and private WANs to remote access users through a broad variety of remote connectivity products. As more companies discover the benefits of supporting increasing numbers of telecommuters and mobile users, Cisco's popular AS5100 access server has become a key component of their remote services. It is a versatile, tightly integrated device that provides dial-up access to enterprise networks for remote individual users or remote LANs.

The AS5100 is a standalone system of channel service units/data service units (CSU/DSUs), channel banks, routers, 48 managed modems, and 48 access server ports running the Cisco Internetwork Operating System (Cisco IOS™) software, all in a single chassis. This high degree of component integration in one chassis eliminates the incompatibility problems that are common with multibox, multivendor installations and increases overall system reliability.

Cisco AS5100 Access

Further, the AS5100s many components are supported by Cisco's world-class 7 x 24 global support team.

Flexibility for Growing Remote Access Needs

Specially designed to accommodate the continuing growth of mobile users' demands, the AS5100's fast V.34 modem and access server cards deliver single-channel operation at up to 115 kbps with performance that does not decrease with additional users. When it is set for digital (channelized T1) service via the public switched telephone network (PSTN), the AS5100 offers the advantage of matched, single-chassis DSU/CSUs, channel banks, and modems for optimized performance and reliability. For analog applications, the Plain Old Telephone Service (POTS) lines connect directly to the modems.

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Specifications

Chassis Specifications

- Chassis Capacity
  - 16 card slots for application/interface cards
  - 1 card slot for network management card
  - 2 slots for power supplies
- Regulatory/Agency Approvals
  - UL1950, CSA 22.2-950
  - EMG950
  - EMJ (Emissions)
  - CISPR22, Class A
  - FCC Part 15, Class A
- Immunity
  - IEC 801-2,3,4,5,6
  - ENG1-000-4-11
- Power Supply
  - AC and DC fuse protection
  - Input line fuse protection with all DC power supply units (PSUs)
  - Auto shutoff in overvoltage and short-circuit conditions
  - Automatic load-sharing capability between two installed power supplies
  - Automatic redundant capability between two units installed
- Operating Environment
  - Temperature: 32°–104°F (0°–40°C)
  - Humidity: 0–95% noncondensing
- Power Requirements
  - AC PSU
  - Nominal 120V (90–132 VAC) @ 47–63 Hz or strap-selectable nominal
  - 240V (180–264 VAC) @ 47–63 Hz
  - DC PSU
  - Nominal –48VDC (–42VDC to –60VDC) with respect to common
- Maximum Output Power
  - 325 watts
  - 5V, 45A
  - 5V, 2A
  - 12V, 3.5A
  - 12V, 3.5A
- Maximum Power Supply Input
  - 475 watts
  - 1621 BTUs
  - 4A (AC), 9.9A (DC)
- Typical Input Power (configured with a T1 card, NMC, and 12 V.34 Quad Modem cards)
  - 325 watts
  - 1105 BTUs
  - 2.7A (AC), 6.8A (DC)

Mechanical Specifications

- Weight of fully loaded chassis: 54 lbs (24.4 kg)
- Chassis dimensions (L x W x H): 18.5 in. x 19 in. x 7in. (47.219 cm x 48.260 cm x 17.780 cm)

Modem Specifications

Digital, analog, and selectable digital/analog modem cards are all available in North America. In countries where specific approvals are required, only analog/digital version is available. An updated worldwide certification listing is available on the World Wide Web at http:/cio.com/warp/customer/508/35.html.

- DTE interface
  - Supports standard DTE rates up to 115,200
  - Asynchronous operation
  - Synchronous operation (DCE supplies TxD clock)
- Error correction
  - ITU-T V.42 error control
  - MNP 2-4 error control
- Data compression
  - ITU-T V.42 bis data compression
  - MNP 5 data compression

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