Access Remote RS-232 Management Ports

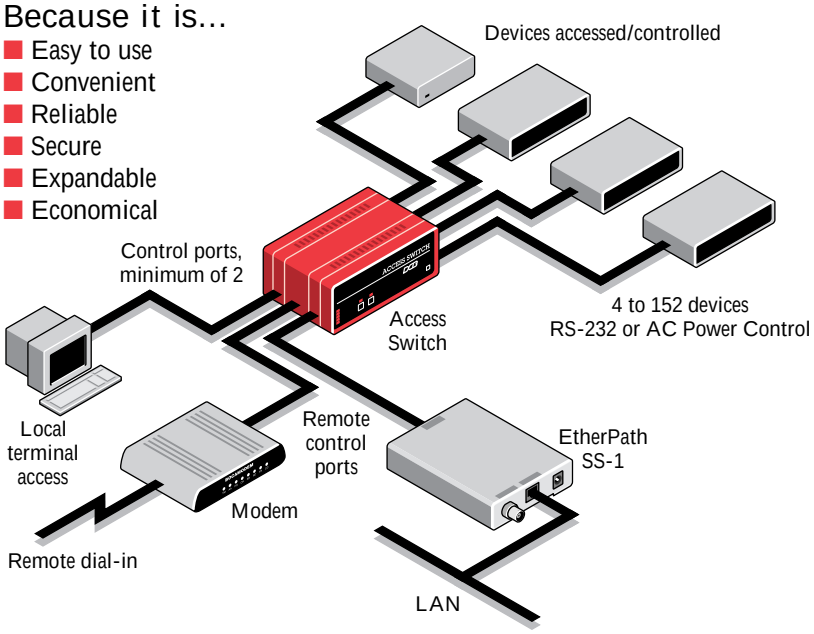
If you need...

- Access to remote equipment
- Access to out-of-band RS-232 management ports
- Access to multiple devices at a single remote site
- Data transparency to allow remote binary downloads
- Remote power control or the ability to reboot equipment
- Low cost. Use a single modem and phone line

Then you need DCB's Remote Access Switch Solution!

Because it is...

- Easy to use
- Convenient
- Reliable
- Secure
- Expandable
- Economical



Providing access to...

- Servers
- Phone systems
- T1 multiplexers, DSU's
- Ethernet hubs, routers
- Transmitters
- UPS's
- Any device with an RS-232 control port

DCB's Access Switches provide the remote control you need, with 4 to 152 RS-232 ports and AC power control!

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RS-232 Access Solutions

The DCB Access Switch allows a local or remote terminal to easily connect to multiple RS-232 devices. It is commonly used for management or configuration ports on all kinds of equipment such as servers, routers, hubs, UPSs, channel banks, transmitters, multiplexers, dial-in servers, voice-mail, ATMs, and PBX systems. All DCB Access Switch models support at least two input (or controlling) ports. One port is usually connected to a local terminal (or PC). The other port is left connected to a modem for remote access. Both ports can be active at the same time if they are accessing different output (controlled) ports. Access Switches provide a way for remote technicians to diagnose and reconfigure equipment without the expense of on-site visits.

Common Applications

- Multiple locations, each with a router, T1 DSU, server, ethernet hub
- Control remote UPS and power conditioning systems
- PBX system management
- Management and configuration of customer equipment from the vendor's office
- Remote management, configuration and control of paging or two-way transmitters
- Reboot any kind of remote equipment

Features and Benefits of the DCB Access Switch

FEATURE	BENEFIT
4 to 152 Ports Scalable	Investment Protection
Password Protection	Security & Confidentiality
Two or More Input (Controlling) Ports	Remote Technician Can Assist Someone On-site
English Language Commands	Easier to Use
Replaceable Software Cartridge	Economical Upgrades
RJ45 RS-232 Ports	Compact, Economical, Uses Less Space
Remote Control via Modem	Eliminates On-site Visits, Travel Time, Improve User Uptime
Control Many Ports, Machines	Save Phone Line Costs

SNMP And Out-of-Band Management

SNMP is by far the most popular management method for LAN-based equipment. It offers great functionality, low cost, and it's easy to learn. Every medium to large LAN/WAN can benefit from SNMP management. But, SNMP has one major problem that is easily solved with the DCB Access Switch. When the system goes down, there is no SNMP management available! An out-of-band management method is also needed. The DCB Access Switch provides this out-of-band management by using the RS-232 management/configuration ports found on all managed equipment. By using a modem on one of the Access Switch input ports, there is a remote diagnosis and configuration path to all your equipment. AC power control options allow remote rebooting and power cycle of hung equipment. Although the Access Switch sometimes takes the place of more complicated SNMP management workstations and software, it is frequently used to supplement it. If you are using SNMP, ask yourself... "When the WAN goes down, how do I reach out and touch the remote equipment?" The DCB Access Switch is the answer.

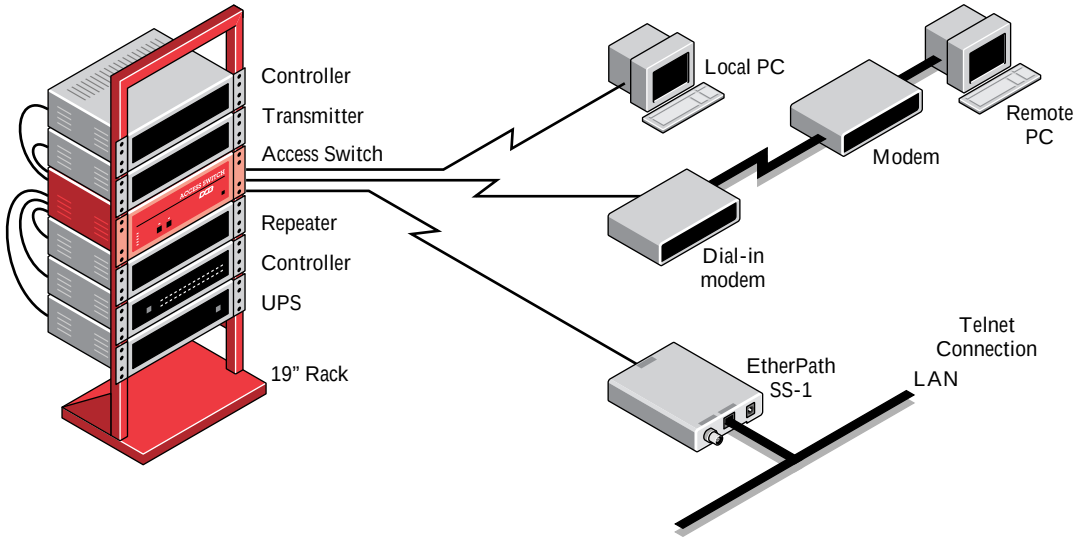
MODEL	INPUTS	OUTPUTS
AS-04	2	4
AS-08	2	8
AS-16	2	16
AS-24	2	24
AS-32	2	32
AS-24M	6	24
AS-32S	–	32
APS-01	1	AC
EtherPath	Ethernet Connection	1

Works with *any* RS-232 Management Port

Since the DCB Access Switch is an ASCII character controlled switch, it can be used to connect ANY devices that use RS-232 asynchronous communications. DCB Access Switches work well with industrial equipment, LANs, WANs, transmitters, UPSs, and servers… just to mention a few. They are quite cost effective, since replacing a second phone line and modem usually provides a pay-back of under one year… and using multiple ports shortens that time significantly. Saving the cost of one on-site visit almost always justifies the system.

Access to Management Ports and Power Control for...

- Transmitter Sites
- Cell Sites
- Studio Equipment
- Transmitter Controllers
- Sign Controllers
- Machine Control
- Industrial Controllers
- 48 Volt Telco Locations



Data Transparency

The DCB Access Switch offers full 8-bit data transparency. This allows trouble-free binary file downloads through the Access Switch. Connections are controlled by either software commands or hardware RS-232 signals. By using the hardware RS-232 control signals to force port disconnects, the Access Switch ignores all data once two ports are connected. If the software disconnect feature is used, the Access Switch disconnects the port when it sees the user-defined "disconnect string" in the data stream.

Ease of Use

DCB's Access Switch is most user-friendly. A new user will learn to use all features of the Access Switch in just a few minutes. The Access Switch uses English commands instead of cryptic codes and has numerous user-defined names. For example, every port may be named by the user with names such as Controller-3, Router, Transmitter, or UPS-2 (with up to 16 characters in each name). The ports are also accessible by port number, requiring NO configuration for data ports. Disconnect and prompt strings are also user-defined. To connect to a port, simply type in the port's name or the command CONNECT followed by the port name. Powering off an AC power port is as easy as typing the name and command OFF (SERVER OFF). If you seldom use the Access Switch, its help feature, which lists all commands, and the System Info command, which lists all port names, make it easy to remain productive.

In-Band Management

By using the Access Switch in combination with the DCB Etherpath, equipment can be managed while using in-band *and* out-of-band paths. The Etherpath provides a telnet path to a controlling port on the Access Switch. Since the Access Switch can have multiple controlling ports, one can be dedicated to a local terminal, one to a dial-in modem, and one to the ethernet connection. It's the ultimate in flexibility.

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Inside...

New equipment to Access Remote RS-232 Devices

- Access multiple locations, each with only one modem and phone line
- Control remote UPS and power conditioning systems
- Configure office and hotel PBX management systems
- Management and configuration of customer communications gear from the network equipment provider's home office
- Remote management, configuration and control of paging, cellular or two-way transmitters
- Reboot **any kind** of remote equipment

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