



By eliminating the propagation of bad packets, all of the available bandwidth can be used for valid information during peak traffic times.

The Hardened Ethernet Switches dynamically allocate buffer space from a 1-MB memory pool to minimize the possibility of dropping frames on congested ports. This ensures that heavily used ports receive very large buffer space for packet storage. Allocation of this sort enables the switch to apply its resources to all traffic loads, even when the traffic activity is unbalanced across its ports.

Because network traffic constantly varies in packet density per port and in aggregate density, the switch continually adapts internally to provide maximum network performance with the least dropped packets.

## Flow control.

Flow control kicks in when the switch detects that its buffer queue is losing space. It does this by sending industry-standard (full-duplex only) "pause" packets to the devices sending packets, thereby temporarily stopping incoming traffic until existing traffic can catch up without dropping packets. This flow control process is transparent to the user.

You also get a collision-based flow-control mechanism. When operating in at half-duplex, the switch can prevent more frames from entering a full buffer queue by forcing a collision signal on all receiving RJ-45 half-duplex ports.

The Hardened Ethernet Switch, with an address table capacity of 16 K node addresses, is suitable for use in large networks. When nodes are added or removed or moved from one segment to another, the self-learning switch automatically keeps up with node locations. In addition, its address-aging algorithm causes least-used addresses to drop out in favor of ones that you use frequently.

## Monitor activity via LEDs.

Plug-and-play, the Hardened Ethernet Switch requires no software configuration during installation or for maintenance.

To monitor activity on the switch, you simply view the LED indicators on the unit's top cover. The LEDs conveniently indicate operating status of all ports. There's a power "on" (PWR) indicator, and a self-test at power up. For each RJ-45, there are link/activity (LK/ACT) LEDs indicating traffic and speed, and full-/ half-duplex indicators (F/H). The fiber ports have link/activity (LK/ACT) indicators.


## What's included

- Hardened Ethernet Switch
- Power supply
- Power cord
- Users' manual

