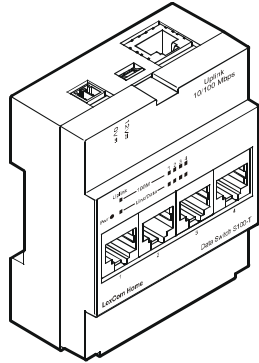




LexCom Home® Instructions for Data Switch S100-T

Lexel no: 30 633 0009
EAN no: 570 330 210 9734



Application

The data module S100-T is to be used exclusively within the LexCom Home system. The data switch manages and controls communication between the PC's and workstations in the network.

The data switch provides 5 switched N-Way 10/100 Mbps RJ45 Ethernet ports. The switch automatically detects the speed of the device you connect to it and allows you to use both 10 and 100 Mbps devices. The switch features a store-and-forward switching and it can auto-learn and store source addresses in a 4K MAC address table.

All ports, both the 4 user ports and the uplink port, supports Auto MDI/MDI-X function. Auto MDI/MDI-X function means that you can connect a patch cable to any of the ports on the switch without worrying about it being a straight or crossover cable.

Further important features are,

- Back-Pressure-Base flow control on half-duplex ports.
- Pause-Frame-Base flow control on full duplex ports.
- Store-and-forward switching architecture for abnormal packet filtering.
- Non-blocking and Full wire speed forwarding rate.
- 1MB memory buffer sharing.

Construction

As shown in figure 1, on top of the module are connectors for:

- RJ45 port for Uplink
- 12 V DC power supply

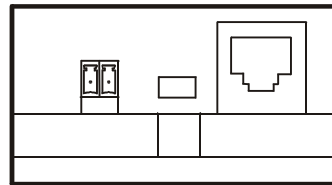


Figure 1: The top of the Data Switch

As shown in figure 2, on the front of the module are:

- Four RJ45 ports to connect the networking units
- LED's per port for Link/Data and 100 Mbps
- LED for Power

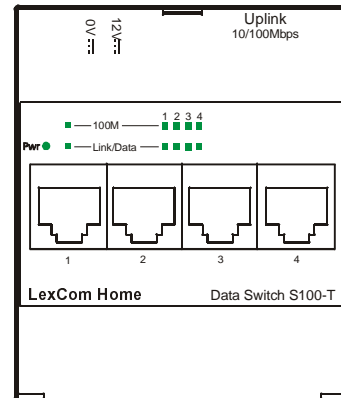


Figure 2: The front of the Data Switch

The LED's has the following indications:

LED	Description	Colour	Function
Pwr	Power	Green	On: Power on
Link/Data	Data traffic	Green	Off: Port not active On: Link established Flashes: Data traffic
100M	Port speed	Green	Off: Port speed 10 Mbps On: Port speed 100 Mbps

Installation

1. Fit the Data Switch to the DIN rail where the active modules are being installed.
2. Connect the external LexCom Home power supply.
3. The workstations are connected to the Data Switch by using min. Cat.5e patch cords.

Notice!

Disconnect the telephone line and coaxial line from the distribution centre prior to installing, removing or performing any work with the modules in the distribution centre.

The distribution centre shall have a permanent, reliable earth ground connection.

If required, a surge protection device to serve as protection against transients shall be installed separately.

The CE label on the side of the module acts as a seal. If this seal is broken the guarantee is no longer valid.

Technical Specifications

Power supply	12 V DC
Current	140 mA max
Transmission speed	10 / 100 Mbps
Protocol	CSMA-CD
Max. Forwarding rate	14.880 pps for 10 Mb 148.800 pps for 100 Mb
MAC Address table	4K
Memory buffer	1MB
Latency	83,36 µSec
Backplane bandwidth	1 Gbps
Operating temperature	0 °C to 45 °C
Operating humidity	10% to 90% (non-condensing)
Dimensions	WDH= 72x37x86 mm
EMI	FCC Class B, CE mark
Standards	IEEE 802.3 10Base-T IEEE 802.3u 100 Base-Tx IEEE 802.3x N-Way