

# Data Switch

## LCHS100



### Description

Shielded DIN Switch for 10/100 Mbps data transmission with 4 RJ45 ports plus one RJ45 port for uplink connections. The switch module is supporting 10 Base-T Ethernet and 100 Base-T Fast Ethernet on all 5 ports and is an easy- installation, plug and play unit.

Further, on all ports the data switch comprises the following features:

- N Way 10/100 Mbps ports
- Auto MDI/MDI-X ports (Auto cross over detect)
- Store and forward switching
- Back-Pressure-Base flow control on half-duplex ports
- Pause-Frame-Base flow control on full-duplex ports
- Non-blocking and full wire speed forwarding rate
- 1 MB memory buffer sharing

Green LED indication for Link/Data and 100 Mb mode for each port and a general Power on indication.

Power is supplied from the 12V DC power supply

The data switch has a reset function on power up.

### Technical information

#### Electrical and Technical Data

Power Supply	12V DC
Current	140 mA max
Shielding Attenuation	>55 dB
Temperature Operation	0° C to 45° C
Transmit (Tx)	Auto sensing MDI/MDI-X
Receive (Rx)	Auto sensing MDI/MDI-X
Data Rate	10/100 Mbps
Protocol	CSMA-CD
Forward Rate	Max 14.880 pps for 10 Mb Max 148.800 pps for 100 Mb
MAC Address	4K
Data Buffer	1MB
Back Plane Bandwidth	1 Gbps
Humidity	10% to 90% (non-condensing)
Management	None
Latency	83.36 µSec

**Construction and Material Data**

Shielding	Plated 3 µm Sn over 20 µm Cu double sided
Dimension	WDH = 72 x 37 x 86 mm
Weight	125 grams
No. of Ports	5 (4+1)
Material, Housing	PC-ABS

**Standards and Approvals**

Performance	IEEE 802.3 10 Base-T IEEE 802.3u 100 Base-Tx IEEE 802.3x N-Way
EMI	FCC Class B, CE mark

**Packaging Data**

Quantity	1 pcs
Size	11.3 x 5.7 x 8.1 cm
Weight	0.140 kg