

# L-Switch<sup>XP</sup> CEA-709 Router

## LS-33/13/11/13300/33300/13333/11333CB

Datasheet #89011918

BACnet  
✓ CEA-709  
KNX

Modbus  
M-Bus  
OPC



The L-Switch<sup>XP</sup> is the solution for interconnecting multiple twisted pair channels (TP/FT-10 or TP/XF-1250 channels) in LonMark Systems. It provides up to five ports and routes packets between these ports. The L-Switch<sup>XP</sup> router delivers first class performance and flexibility in use. In order to provide the optimal router configuration, the L-Switch<sup>XP</sup> comes with two, three, or five ports and two operating modes "Smart Switch Mode" and "Configured Router Mode".

### Features

- Physical separation and logical connection of up to five CEA-709 network segments
- TP/FT-10 channels are compatible with link power
- Compliant with CEA-709 and ISO/IEC 14908-1 (LonMark System)
- Can be used as configured router, learning switch, or as repeater (Smart Switch mode)
- Plug and play installation (Smart Switch mode)
- Forwards packets of up to 256 bytes length
- Supports up to four domains (Smart Switch mode)
- Learning of the topology with forwarding decision based on subnet/node and group addresses (Smart Switch mode)
- Short propagation delay between ports
- Network diagnostic LEDs
- CEA-709 status and activity LED
- Shapes for LonMaker<sup>®</sup> Network Management Tool available

### Specifications

Type	LS-33CB	LS-13CB	LS-11CB	LS-33300CB	LS-13300CB	LS-13333CB	LS-11333CB
Dimensions (mm)	107 x 100 x 60 (L x W x H), DIM010			159 x 100 x 60 (L x W x H), DIM008			
Installation	DIN rail mounting following DIN 43880, top hat rail EN 50022						
Power supply	12-35 VDC / 12-24 VAC ±10 %, typ. 3 W						
Operating conditions	0 °C to 50 °C, 10 – 90 % RH @ 50 °C, non condensing, degree of protection: IP40, IP20 (terminals)						
Interfaces	2 x TP/FT-10	1 x TP/XF-1250 1 x TP/FT-10	2 x TP/XF-1250	3 x TP/FT-10	1 x TP/XF-1250 2 x TP/FT-10	1 x TP/XF-1250 4 x TP/FT-10	2 x TP/XF-1250 3 x TP/FT-10
Tools	Configuration via console RS-232 (EIA-232)						

### Order number Product description

LS-33CB	L-Switch <sup>XP</sup> CEA-709 Router, 2 x TP/FT-10
LS-13CB	L-Switch <sup>XP</sup> CEA-709 Router, 1 x TP/XF-1250, 1 x TP/FT-10
LS-11CB	L-Switch <sup>XP</sup> CEA-709 Router, 2 x TP/XF-1250
LS-33300CB	L-Switch <sup>XP</sup> CEA-709 Router, 3 x TP/FT-10
LS-13300CB	L-Switch <sup>XP</sup> CEA-709 Router, 1 x TP/XF-1250, 2 x TP/FT-10
LS-13333CB	L-Switch <sup>XP</sup> CEA-709 Router, 1 x TP/XF-1250, 4 x TP/FT-10
LS-11333CB	L-Switch <sup>XP</sup> CEA-709 Router, 2 x TP/XF-1250, 3 x TP/FT-10
LPOW-2415B	Power supply unit with power connector 24 VDC, 15 W
LT-03	Network terminator, 1 x TP/FT-10 or TP/LPT-10 (bus or free topology), 1 x Network Access Connector RJ45
LT-13	Network terminator, 1 x TP/FT-10 or TP/LPT-10 (bus or free topology), 1 x TP/XF-1250
LT-33	Network terminator, 2 x TP/FT-10 or TP/LPT-10 (bus or free topology)