

Mounting Instructions

Easylon PC/104 Interface

Type Code: LP42.xxx

WARNING NOTES



Electrostatic sensitive device !

- Switch OFF the device into which you want to install the Easylon PC/104 Interface card and disconnect power.
- Ensure the grounding of the interface card (cf shield (4) in figure) via device chassis.

INSTALLATION

The installation of the interface card is described in detail in the Easylon PC Interface User Manual.

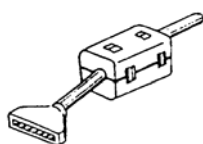
- The Easylon PC/104 Interface is assigned four I/O port addresses on the PC/104 bus. The base address of this I/O range is set via DIP switches address setting.



Address switches:

Ad- dress	A9	A8	A7	A6	A5	A4	A3	A2
200	1	0	0	0	0	0	0	0
300	1	1	0	0	0	0	0	0
320	1	1	0	0	1	0	0	0
340	1	1	0	1	0	0	0	0
380	1	1	1	0	0	0	0	0

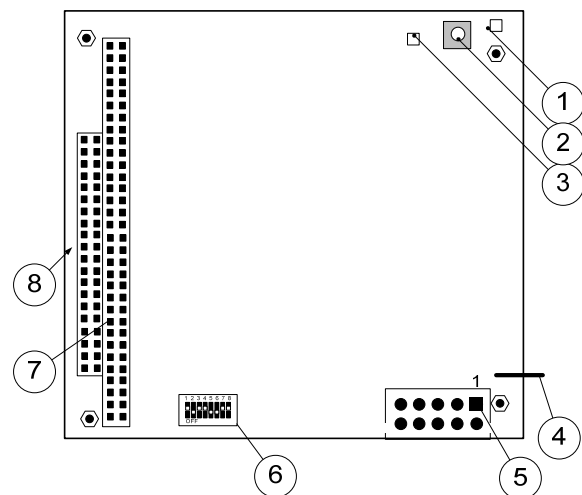
- The Easylon PC/104 Interface card is now ready to be connect to the PC/104 Bus. Switch OFF the computer and disconnect power! Insert the card. Fix the card with the screws.
- To ensure electromagnetic compatibility for operation of the board the ferrite core enclosed in the delivery has to be mounted around the interface cable to the LONWORKS network.
- Connect LonWorks bus and protective ground.
- Switch on the computer again.



- Install the Easylon PC Interface driver from the CD as described in the User Manual. Please also read the "readme.txt" file for additional information.
- The interrupt of the board must be set by software. Please refer to the manual for the operating system dependant information.
- Default settings are: Address 340H; IRQ 5
- Reboot the computer to update these settings.
- The Easylon interface board is delivered "un-configured". Further information on this subject is given in the User Manual.
- The Service LED is constantly on if the installation was successful (otherwise please use the user manual).

DESCRIPTION

The Easylon PC/104 Interface is an interface card connecting PC/104 ISA-bus computers to the LONWORKS network. Variants are available with respect to transceivers, firmware additional external LED signals and environmental conditions.



- (1) Service LED
- (2) Service button
- (3) LON traffic LED (optional)
- (4) Shield, MUST be connected!
- (5) block terminal for LON bus (pin 1)
- (6) DIP switches for setting the card address
- (7) PC/104-bus connector
- (8) Type identifier and serial-# on connect.

TECHNICAL SPECIFICATIONS

Neuron-Chip	3150,10 MHz
Transceiver variants	FTT-10A, FTX, TP/XF-78, TP/XF-1250, RS485, Direct Connect
Coupling	Parallel, Slave_A mode
IRQ	3, 5, 7, 9, 10, 11, 12, 15 software controlled
Memory ROM	48,75 Kbyte
RAM	9 Kbytes
Power supply	5 V from PC
Power consumption	typical 1.5 W
Operating temper.	0 ... +50 °C
(option: extended range)	-40 ... +85 °C in extended range)
Storing temperature	-20 ... + 60 °C
(option: temp version)	(-40 ... +85 °C for ext. temp version)
Humidity	Class F (DIN 40040), no condensation
Dimension	90.2 mm x 95.9 mm
EMC emission	EN 55022 A/B
immunity	EN 61000-6-2
Compatibility	EN50155 (version with ext. temp. range) EIA-709.1, LonTalk

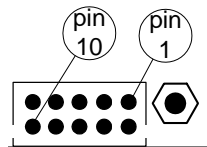
FURTHER DOCUMENTATION

- EasyLon ISA-Bus Interface User Manual

CONNECTOR PIN ASSIGNMENT

Connector	Pin	Signal	Remark
10pin LON connector	1	option: SERVICE	External Service LED 3,3 V, 10 mA High = ON
	2	—	Reserved
	3	option: RxLED	LON traffic Rx *
	4	—	Reserved
	5	option: TxLED	LON traffic Tx *
	6	—	Reserved
	7	Data	LON A
	8	—	Reserved
	9	Data	LON B
	10	Shield	Shield

* cf. External LED Connection



EXTERNAL LED CONNECTION

Optional feature

The connection of external LEDs is dependant on the transceiver type of the interface card

