

T225X

MODEL



ELIN – ALIN Bridge Specification Sheet

- **ELIN - ALIN Connectivity**
- **Transparent operation**
- **Fault tolerant**
- **Supports LIN**
- **System growth/performance**
- **Messages only passed as required**
- **Diagnostics**

The T225X ELIN-ALIN Bridge passes database connections and filing system requests between ELIN and ALIN network nodes.

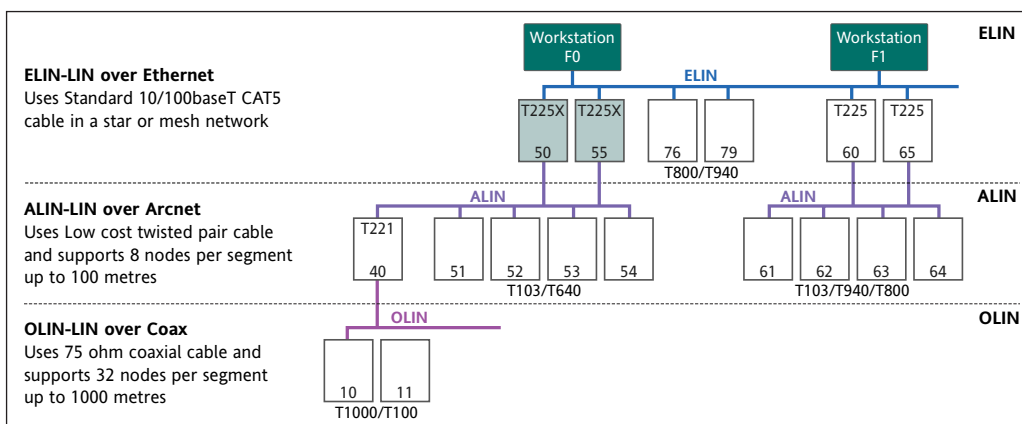
Redundant operation is achieved by connecting the units in parallel.

Operation

The bridge operates transparently, by passing the Database and Filing connections between LIN nodes on ELIN and ALIN networks either side of the T225X. If a T225X fails then the connection between LIN nodes will fail. Alarms are generated and file transfer failures will result. If there are alternative paths then the LIN Software automatically seeks an alternative path and re-establishes the connection. The T225X can be placed in parallel with T225s or in series with the T221, it is therefore possible to create logical LIN networks from a mixture of OLIN (original coax), ALIN (Arcnet) and ELIN (Ethernet) nodes. T225X functionality is virtually identical to that of the T225 and T221 Bridge providing transparent integration of local ALIN and ELIN environment, and traffic segregation for optimal performance.

Basic Topology

The diagram below shows schematically an example of how the T225X maybe used to link multiple segments of ALIN and ELIN to a single ELIN network. In the configuration shown full peer to peer communications are maintained between all nodes.



Bridge Redundancy

An ALIN network segment maybe connected to the ELIN by more than one T225X Bridge. Upon failure of a single T225X the LIN Software will try an alternative redundant path to re-establish the connection. Providing a fault tolerant configuration.

Diagnostics

A suite of diagnostics blocks are available via TELNET or through a local configuration port.

Status Indication

Status Led functions (unit top)
PWR - Unit Power
ACT - Ethernet Activity
SPD - Ethernet Speed On = 100Mb
Off = 10Mb
LNK - Valid Ethernet Link
CF - Compact Flash Activity

Communications Port Leds (unit top)

ELIN Green = Forwarding
Red = Fail
ALIN Green = Forwarding
Red = Fail

Relay Outputs

are provided for the following functions
RLY1 - Watchdog
RLY2 - Forwarding comms traffic

Communication Address setup

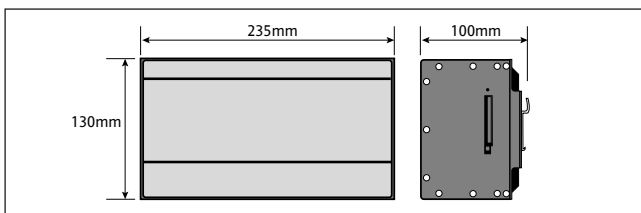
T225X Initial address setup is configured via a terminal emulator such as Hyper Terminal using the Com 1 serial port for the IP address and Subnet mask, ELIN protocol name and Node address.



ORDERING CODE



Mechanical Installation



SPECIFICATION

Physical

Mounting: The T225 is designed to be mounted directly onto a top hat 35mm x 220mm (min length) DIN rail.
Dimensions: 130mm (H) x 235mm (W) x 100mm (D)
Weight: 1580g max

Environmental

Temperature: Storage: 0°C to +70°C
Operating: 0°C to +50°C
Shock: Storage: ±10°C/min
Operating: ±5°C/min
Humidity: Storage: Up to 95%, non-condensing
Operating: Up to 90% non-condensing
RFI: EMC emissions: BS EN61326-1:1997 Class A (including amendments A1, A2 and A3)
EMC immunity: BS EN61326-1:1997 Industrial locations (including amendments A1, A2 and A3)
BS EN61010-1:2001
Safety Specification: Spectrum: 5 to 100Hz
Vibration: Acceleration: 2g
Protection: IP20

Power Requirements

Main supply: Voltage range: 8-30V dc
Supply current: 0.5A max Inrush 30A
Relay outputs: 30V max, 2A max Resistive load, 1A max inductive load.
No overcurrent protection
Isolation: Ethernet: 100BaseT - Galvanic, 500 ac rms
Digital outputs - opto-galvanic 500 ac rms
Arcnet: 60V dc/30V ac 5.6kΩ to 0V

Eurotherm: International sales and service

AUSTRALIA Sydney
Eurotherm Pty. Ltd.
T (+61 2) 9838 0099
E info.au@eurotherm.com

AUSTRIA Vienna
Eurotherm GmbH
T (+43 1) 7987601
E info.at@eurotherm.com

BELGIUM & LUXEMBOURG Moha
Eurotherm S.A/N.V.
T (+32) 85 274080
E info.be@eurotherm.com

BRAZIL Campinas-SP
Eurotherm Ltda.
T (+5519) 3707 5333
E info.br@eurotherm.com

CHINA
Eurotherm China
T (+86 21) 61451188
E info.cn@eurotherm.com
Beijing Office
T (+86 10) 63108914
E info.cn@eurotherm.com
Guangzhou Office
T (+86 20) 38106506
E info.cn@eurotherm.com

DENMARK Copenhagen
Eurotherm Danmark AS
T (+45 70) 234670
E info.dk@eurotherm.com

FINLAND Abo
Eurotherm Finland
T (+358) 22506030
E info.fi@eurotherm.com

FRANCE Lyon
Eurotherm Automation SA
T (+33 478) 664500
E info.fr@eurotherm.com

GERMANY Limburg
Eurotherm Deutschland GmbH
T (+49 6431) 2980
E info.de@eurotherm.com

HONG KONG
Eurotherm Hongkong
T (+85 2) 28733826
E info.hk@eurotherm.com

INDIA Chennai
Eurotherm India Limited
T (+91 44) 24961129
E info.in@eurotherm.com

IRELAND Dublin
Eurotherm Ireland Limited
T (+353 1) 4691800
E info.ie@eurotherm.com

ITALY Como
Eurotherm S.r.l
T (+39 031) 975111
E info.it@eurotherm.com

KOREA Seoul
Eurotherm Korea Limited
T (+82 31) 2738507
E info.kr@eurotherm.com

NETHERLANDS Alphen a/d Rijn
Eurotherm B.V.
T (+31 172) 411752
E info.nl@eurotherm.com

NORWAY Oslo
Eurotherm A/S
T (+47 67) 592170
E info.no@eurotherm.com

POLAND Katowice
Invenys Eurotherm Sp z o.o.
T (+48 32) 2185100
E info.pl@eurotherm.com

SPAIN Madrid
Eurotherm España SA
T (+34 91) 6616001
E info.es@eurotherm.com

SWEDEN Malmo
Eurotherm AB
T (+46 40) 384500
E info.se@eurotherm.com

SWITZERLAND Wollerau
Eurotherm Produkte (Schweiz) AG
T (+41 44) 7871040
E info.ch@eurotherm.com

UNITED KINGDOM Worthing
Eurotherm Limited
T (+44 1903) 268500
E info.uk@eurotherm.com
www.eurotherm.co.uk

U.S.A. Leesburg VA
Eurotherm Inc.
T (+1 703) 443 0000
E info.us@eurotherm.com
www.eurotherm.com

ED56

© Copyright Eurotherm Limited 2008

Invenys, Eurotherm, the Eurotherm logo, Chessell, EurothermSuite, Mini8, Eycon, Eyris, EPower and Wonderware are trademarks of Invenys plc, its subsidiaries and affiliates. All other brands may be trademarks of their respective owners.

All rights are strictly reserved. No part of this document may be reproduced, modified, or transmitted in any form by any means, nor may it be stored in a retrieval system other than for the purpose to act as an aid in operating the equipment to which the document relates, without the prior written permission of Eurotherm limited.

Eurotherm Limited pursues a policy of continuous development and product improvement. The specifications in this document may therefore be changed without notice. The information in this document is given in good faith, but is intended for guidance only.

Eurotherm Limited will accept no responsibility for any losses arising from errors in this document.

Part No. HA029920 Issue 2



Printed on
recycled paper
in England 10.08