Regulatory Notices

EC Declaration of Conformity
FarSite Communications Limited declare that the product FarLinX X25 Gateway is in conformity with the following standards and other documents:

Telecommunications Terminal Equipment: TTE Directive 91/263/EEC, **TBR1, TBR2**
Electromagnetic compatibility: EMC Directive 2014/30/EU, EN55032:2015 class B
Safety: LVD Directive 2014/35/EU, EN60950-1:2006+A2:2013

Federal Communications Commission (FCC) Statement

Radio Frequency Interference (RFI) (FCC 15.105)

The FarLinX X25 Gateway has been tested and found to comply with the limits for Class A digital devices pursuant to Part 15 Subpart A of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Labelling requirements (FCC 15.19)

This device complies with Part 15 of FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference which may cause undesired operation.

Modifications

Changes or modifications to this equipment not expressly approved by FarSite may void the user's authority to operate this equipment.

FCC Declaration of Conformity
(In accordance with FCC dockets 96-208 and 95-19)

Manufacturer's name: FarSite Communications Limited
Tempus Business Centre, 60 Kingsclere Road, Basingstoke
Hampshire, RG21 6XG, United Kingdom

FarSite Communications Limited declares that the product FarLinX X25 Gateway to which this declaration relates, meet the requirements specified by the Federal Communications Commission as detailed in the following specifications

- Part 15, Subpart B, for Class A Equipment
- FCC Docket 96-208 as it applies to Class A Personal Computers and Peripherals

The product has been tested at an external laboratory certified per FCC rules and has been found to meet the FCC, Part 15, Class A emission limits. Documentation is on file and available from FarSite.

Industry Canada

This Class A digital apparatus meets the requirements of the Canadian Interference Causing Equipment regulations.

Cet appareil numérique de la classe A respecte toutes les exigences du Règlement sur le máteriel brouilleur du Canada.

FarSite COMMUNICATIONS

FarLinX X25 Gateway

Quick Start Guide

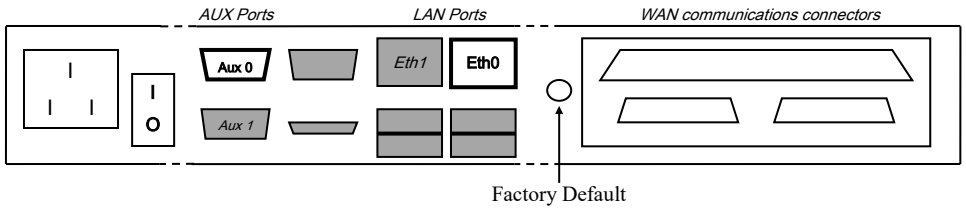
Thank you for choosing the FarLinX X25 Gateway for your TCP to X.25 interworking needs. The FarLinX X25 Gateway is designed to enable X.25 network replacement while supporting legacy X.25 connected host and terminal equipment without modification. It also permits XOT connected equipment access to X.25 connected hosts.



Front Panel Guide

READY indicates system status	**Green** **Red** **Flashing Red**	System OK System not ready for use System fault
LAN indicates LAN status	**Green** **Flashing Green** **Flashing RED**	LAN interface operational LAN data transfer activity LAN not operating correctly (includes no LAN cable)
WAN indicates WAN status	**Green** **Flashing Green** **Red** **Flashing Red** **Amber**	Configured X.25 interfaces operational WAN data transfer activity Some configured X.25 ports working correctly No configured X.25 ports operating correctly (this would include no cable attached) No X.25 ports started (or none configured)

Rear Panel Guide



LAN Ports	RJ45 connectors for LAN (Ethernet) connection. Use connector **Eth0** - the second port (*Eth1*) is not currently utilised.
Factory Default	This button is recessed into the rear panel and must be accessed with a narrow object such as a straightened paper clip. Pressing and holding this button while the unit is running will set the interfaces back to factory set defaults (the LEDs will flash to confirm activation of default settings)
AUX Ports	Async communications ports with a 9 pin D-type male connector which can either be used as a PAD port or in conjunction with Live/Standby operation to provide an independent channel for the gateways to coordinate resilient operation. Use connector **Aux0** - the second port (*Aux1*) is not currently utilised.
WAN Comms Connectors	One or more connectors for attachment of network cables - see later section
Power Switch	Pressing this switch will switch power on Pressing this switch while the unit is running will perform an orderly shutdown Pressing this switch for 5 seconds will switch the power off immediately
IEC Power connector	For attachment of mains power supply
Other Connectors	Unused in this product

Installation overview

The installation of the FarLinX X25 Gateway has three basic steps.

- ***Connect the cables***
- ***Set up a configuring PC***
- ***Configure the FarLinX X25 Gateway through the web based configuration interface***

These steps are covered in the following sections but for more information refer to the manuals on the product CDs. Some manuals are in Adobe Portable Document Format (PDF). If you require a reader application for this manual format, a selection of readers can be found in the ***Acrobat*** directory on the product CDs.

Step 1. Connect the Cables

1. Connect one end of the supplied LAN cable to the network connector on the rear panel of the system. Connect the other to your Local Area Network hub or switch outlet.
2. For models supporting 4 or more X.25 lines, connect the type MTU4 transition cable to the single high density connector on the rear of the system to provide 4 separate port connectors.
3. Connect appropriate FarSync data cables between the port connectors and the target X.25 lines. Cables are available as follows:

Data connection	DTE Cable type(s)
V.24/RS232	UCR1
V.11/X.21	UCX1
V.35	UCV1
EIA530	U530
RS449	UCX1 and X21-449-EXT
E1	MCE1

To connect X.25 DTE terminal equipment it may be necessary to use crossover cables to present the correct DCE interface to the terminal and allow correct cable connection and operation. For example:

Data connection	DCE Cable type(s)
V.24/RS232	UCR1-DCE or UCR1 with NULL-MR3/NULL-MR4 to present V.24 DB25F
V.11/X.21	UCX1-DCE or UCX1 with NULL-MX to present X.21 DB15F
V.35	UX35C to present V.35 MRAC34F
RS449	UCX1 and X21-449-INT to present RS449 DB37M

4. Connect a power cable to the IEC power receptacle and connect to a suitably located power supply socket.
5. Power on the FarLinX X25 Gateway. **Please allow time for the system initialisation to complete .**

Step 2. Prepare the Configuring PC

The following instructions assume that you are using a Windows based PC to configure your FarLinX X25 Gateway. Similar methods can be used from any other operating system. The LAN interface of the Configuring PC must be connected to the same LAN of the FarLinX X25 Gateway. It is necessary to temporarily change the TCP/IP settings of the configuring PC to initialise the FarLinX X25 Gateway.

1. Edit the TCP/IP properties of the Local Area Connection interface of the Configuring PC as follows:

   IP address: 10.0.0.2 Subnet mask: 255.255.255.0 Default gateway: 10.0.0.1

2. These values are for initial configuration purposes only and will be changed back later.

Step 3. Access the FarLinX X25 Gateway via the web interface

1. At the configuring PC, start a web browser and enter the URL of http://10.0.0.1
2. You may be prompted to allow the secure connection (with certificate warnings). After accepting this, a login dialog will be presented. Enter the default user credentials:
   username: **admin**
   password: **farlinx**
3. You should now see the home page of the FarLinX X25 Gateway configuration web. The left hand frame offers a number of options for configuration and operational information. Take time to review the introduction and online help pages. The first step should be to adjust the LAN IP address information to be suitable for your environment. Choose the **LAN** configuration item and click **Modify** to enter your preferred settings. Once you have saved the changed LAN settings you will need to revert the IP address configuration of the configuring PC to your normal settings in order to re-establish connection with the configuration web interface.
4. The operating parameters for the X25 Gateway networking are available from the **X.25 Gateway** Configuration menu item. Configuration of the X.25, XOT and Gateway parameters is with a Java Applet that requires use of a **Java Runtime Environment** on the configuring PC. Suitable software is supplied on the product CD or may be downloaded from http://java.sun.com/download.

For more information on how to use the FarLinX X25 web interface refer to the FarLinX X25 Gateway Manual and the online help pages. For security you should change the administration password from the **Passwords** menu item. The password can only be cleared by resetting the box to factory defaults so remember to save your configuration using the **Backup Config** menu item.

WARRANTY INFORMATION

Your FarLinX Gateway carries as standard a return to base hardware warranty of 1 year from date of delivery. If you require support visit the Support area at www.farsite.com. If you wish to extend your warranty period or upgrade to full product maintenance cover, please contact your sales representative. Further information can be found at www.farsite.com/products/product_warranty.htm.