

## Regulatory Notices

### EC Declaration of Conformity

FarSite Communications Limited declare that the product FarSync TE1e is in conformity with the following standards and other documents:

Electromagnetic compatibility (EMC Directive 2004/108/EC): **EN55022, EN61000-6-2**  
Safety (LVD Directive 2006/95/EC): **EN60950**

This equipment is intended for attachment to public or private leased lines.

This equipment meets Class B EMC requirements.



### Federal Communications Commission (FCC) Statement

#### Radio Frequency Interference (RFI) (FCC 15.105)

The FarSync TE1e has been tested and found to comply with the limits for Class B digital devices pursuant to Part 15 Subpart B, of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential 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. However, there is no guarantee that interference will not occur in a particular installation. If this equipment causes harmful interference to radio or television reception, which can be determined by switching the equipment off and on, the user is encouraged to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and the receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/TV technician for help

#### 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 FarSync TE1e 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 B Equipment
- FCC Docket 96-208 as it applies to Class B Personal Computers and Peripherals

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

### Industry Canada

This Class B digital apparatus meets the requirements of the Canadian Interference Causing Equipment regulations. Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.



# FarSync TE1e

## QUICK START GUIDE

### FOR WINDOWS AND LINUX

Thank you for choosing FarSync for your synchronous data communications needs. The FarSync product family provides a full range of synchronous data communications solutions. The model covered by this guide are:

#### FarSync TE1e

An intelligent single port PCI-Express adapter for synchronous data communications over an E1 interface. The card provides a physical connector for both BNC and RJ48C cables.

The installation of the FarSync TE1e product has five basic steps.

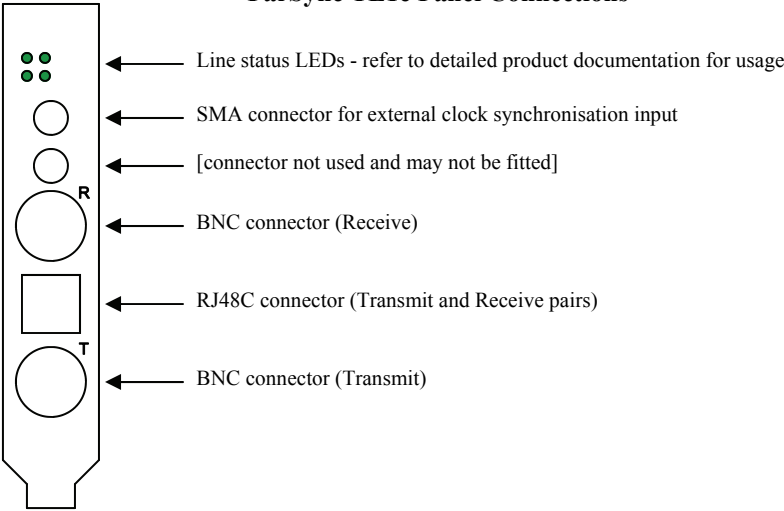
- **Select cable connector type**
- **Install the hardware**
- **Connect the cables**
- **Install the FarSync driver software**
- **Configure the FarSync drivers**

Refer to page 2 of this guide for more instructions on each step. Note that **Administrator privilege** is required to install the software under Windows. Installation under Linux should be performed as **root**. Use a web browser to view the file `install.html` file for further assistance on the software installation process.

Manuals on the FarSync CD are in HTML or Adobe Portable Document Format (PDF). Adobe Reader applications are available for most current operating systems and may be downloaded for free from the Adobe web site.

**Warning – Electrostatic discharge can damage integrated circuits on your FarSync card. Observe precautions for handling electrostatic sensitive devices.**

**FarSync TE1e Panel Connections**



Refer to detailed product documentation for usage of the external clock and synchronisation pulse inputs.

**Step 1 Selecting the Network Cable Connector Type**

The FarSync TE1e card has both BNC connectors and an RJ48C connector for network connectivity. The card is supplied with a suitable RJ48C cable (cable type MCE1).

The default configuration of the FarSync TE1e card is to use the RJ48C interface. If you wish to use BNC cables, then you will need to obtain a suitable pair of BNC cables (one for Tx and one for Rx) and change two links on the card as indicated in the table below:

Cable Type	Link 1	Link 2
RJ48C	Pin 1 to Pin 2	Pin 1 to Pin 2
BNC	Pin 2 to Pin 3	Pin 2 to Pin 3

Do not connect any cables to the BNC connectors if the RJ48C connector is being used. Do not connect a cable to the RJ48C connector if the BNC connectors are being used. **If both RJ48C and BNC are connected simultaneously then communications will be impaired.**

**Step 2 Installing the hardware**

Shut down and power off the system. Identify a free PCI Express slot in your PC and install the FarSync TE1e card, ensuring that it is properly secured with a mounting screw. The FarSync TE1e card are **PCI Express** cards that will operate in any PCI Express (PCIe) slot conforming to revision 1.0a or later of the PCI Express specification. This includes slots with x1-lane, x4-lane, x8-lane and x16-lane connectors.

**Step 3 Connecting the cables**

Connect the card to the Network Termination Unit (NTU) with the selected cable. If using the RJ48C connector, please refer to the Regulatory Notices on Page 4 of this guide.

**Step 4 Install the Driver Software**

The software included with this product is subject to one or more software license agreements. The top level license agreement is either included in printed form in your product package or in the file LICENSE.TXT in the root directory of the CD included with the product.

**By installing the software you agree that you have read and understood the license and agree to its terms and conditions**

Driver installation instructions can be found on the software CD accompanying the product. The `install.html` file in the root directory of the CD should be used as a starting point.

**Step 5 Configure the FarSync Drivers**

Configuration of the FarSync driver software also varies between the many supported operating systems. Again refer to the documentation on the product CD for details of the mechanism suitable for your environment.