

APPLICATION NOTES

EX7100 Rural Radio Telephone Link

April 2003

Application Notes regarding specific use of the EX7100 Digital Radio Link will be made available when released by Exicom Technologies Limited.

The following Application Notes are currently available: (select as required)

- 1) Asynchronous RS232 operation over a Six-Channel EX7100 Radio Link
- 2) Remote LAN/WAN access via Ethernet Interface over a 64kbps EX7100 Radio Link

EX7100 6 Channel Digital Radio Link

Application Note (April 2003) – Asynchronous RS232 Interface

INTRODUCTION

Asynchronous RS232 data transfer is possible by use of an additional internal RS232 Interface module that is factory-fitted (when ordered) within each EX7100 Six-channel Radio Link Terminal.

INTERFACE

The RS232 module provides an EIA/TIA 232E compliant interface for connection at data rates of 9600, 4800, 2400, 1200, 600, 300, 150 or 75 baud

Note: Data rates are determined by the externally-connected equipment.

A 36-way rear panel socket provides six identical interfaces, each consisting of TXD, RXD, DTR, DSR and ground lines.

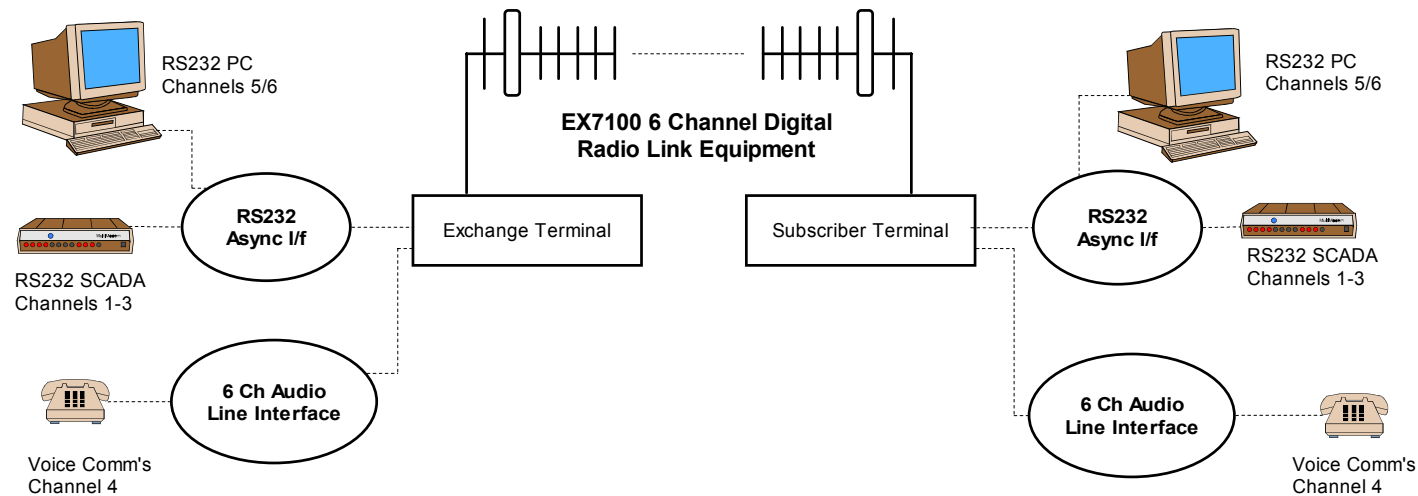
The DTR line is an input to the RS232 interface, causing the circuit to operate while the DSR line is an output, indicating that the circuit is ready for data transfer.

TYPICAL APPLICATIONS

Typical applications include alarm monitoring, SCADA communications or any other leased-line application where point-to-point data transfer is required.

RS232 operation is software-selectable on any or all of the six available channels.

Note: Normal voice/fax/modem data operation remains unaffected on any channels not required for RS232 operation.



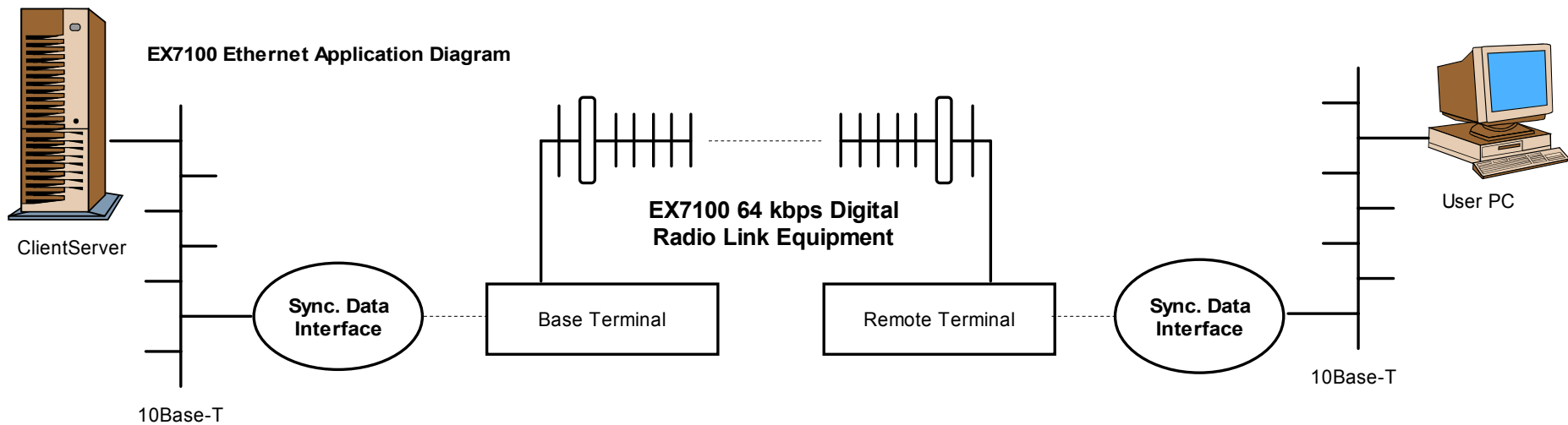
Typical application, utilising telephone and RS232 data transfer on individual channels.

EX7100 64 kbps Digital Data Radio Link

Application Note – Ethernet Interface

INTRODUCTION

Remote LAN/WAN access is possible by use of an optional Miniature Remote Ethernet Bridge, connected via the Sync Data Interface (V.11) of each EX7100 terminal. The Ethernet Bridge provides a 10Base-T (UTP RJ-45) interface with a data transmission capacity of 56 kbps.*



Single end-user with network access to centralized database (i.e. inventory system etc) and other server functionality (i.e. Internet).

* Data transmission rates may vary depending upon RF conditions