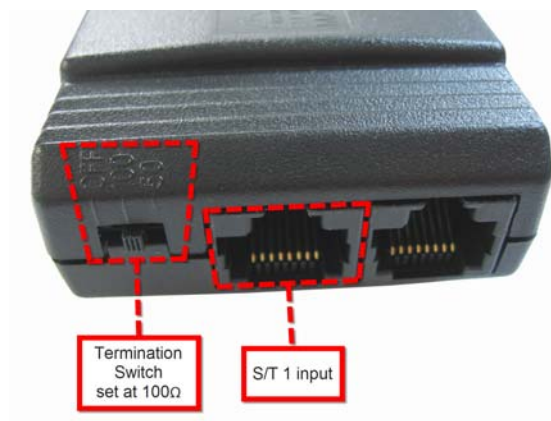## USING TIELINE "EURO ISDN G3" MODULES

PURPOSE

This document explains how to use Tieline "Euro ISDN G3" modules, which have superseded the original Tieline "Euro ISDN" and "US ISDN" modules. The Euro ISDN G3 module can be used in most countries outside North America and for all satellite ISDN connections. It can also be used over ISDN networks in the USA in conjunction with an S/T to U ISDN adapter.

PREREQUISITES

- ✅ Codecs must connect using firmware version 1.6.46 or higher.

- ✅ Codecs outside North America must connect directly to an NT-1 device installed by the Telco, which converts the 2-wire ISDN U interface into a 4-wire S/T interface.

PREREQUISITES FOR NORTH AMERICA

- ✅ Codecs within North America must connect using an NT1B-300TC S/T to U adapter (supplied by Tieline with the Euro ISDN G3 module in North America).

- ✅ Attach power to the S/T to U adapter and a cable between the Euro ISDN G3 module in the codec and the "S/T 1" connection on the adapter.

- ✅ Attach a cable from the "U Line" out connection on the S/T to U adapter to the Telco interface.

- ✅ Switch the termination switch on the S/T to U adapter to 100Ω. See the Installation Instructions for the NT1B-300TC S/T to U adapter for more detailed information on its use and safe operation.

LIMITATIONS

☑ The new "Euro ISDN G3" modules will not work together with the superseded "US ISDN" and "Euro ISDN" modules in codecs that are capable of using two ISDN modules. You must use either two new modules or two old modules together in a codec if:

- o 192-256Kbps connections are required, or

- o A connection using two separate ISDN lines is required.

☑ Some ISDN settings are treated differently by the old ISDN modules (F/ware=SG 2.41a) and the new Euro ISDN G3 module (F/ware=TA+SOC V7.03). See the tables that follow in this technical note.

IDENTIFYING THE NEW EURO ISDN G3 MODULE

There are two ways to identify the new modules:

i. The "Euro ISDN G3" identification label on the front of the module.

ii. With the codec select **[Menu] > [Unit Details] > [ISDN> Version]** and the firmware should display V7.xx.

PROGRAMMING A CODEC FOR ISDN G3 MODULE CALLS

Press SOFTKEY 3 "Wiz" to open the ISDN wizard on your G3 codec and program **[Network → Select your choice ←] > [Algorithm →Select your choice←] > [ISDN Line Type →P-Multi or P-Point←] > [Local SubAddress →Leave this blank←] > [Auto Reconnect →Enable/Disable←].**

If you need to enter a MSN number (used when multiple devices are connected to an ISDN connection), select **[Menu] > [Configuration] > [ISDN Left/Right Setup] > [DN1] > [Enter the MSN Number]** and press "OK". Your codec is now ready to dial or receive a call.

Note: In the USA SPID 1 and SPID 2 must also be entered.

Following are two tables that outline the differences in the data required when dialing using the superseded US ISDN and Euro ISDN modules and the newer Euro ISDN G3 modules.

NEW ISDN MODULE (F/WARE=TA+SOC V7.03)

	When a US network type is selected, (i.e. US-AT&T, or US-Nat)	When a non US network type is selected, (i.e. EU-ETSI or JPN-NTT).
Local Subaddress	N/A	N/A
SPID 1	SPID1	N/A
DN 1	N/A	MSN (Multiple Subscriber Number) for incoming DATA and VOICE calls. Only the last digit is taken into account. Entire digits are used as own number for outgoing calls.
SPID 2	SPID2	N/A
DN 2	N/A	N/A

OLD ISDN MODULE (F/WARE=SG 2.41A)

	When a US network type is selected (i.e. US-AT&T, US-Nat, or DMS)	When a non US network type is selected, (i.e. EU-ETSI, JPN-NTT, or KOR-KOR)
Local Subaddress	Subaddress	Subaddress
SPID 1	SPID1	N/A
DN 1	Directory Number 1 (full number) must be entered	Last 4 digits are used as MSN (Multiple Subscriber Number) for incoming DATA calls. Entire digits are used as own number for outgoing calls.
SPID 2	SPID2	N/A
DN 2	Directory Number 2 (full number) must be entered	Last 4 digits are used as MSN (Multiple Subscriber Number) for incoming VOICE calls.

For more information about making ISDN calls, please see the ISDN section in your codec reference manual, or download the latest version at www.tieline.com.