

CABLING FROM A NETWORK TERMINATION NT1*

NT1*Star

The unit is similar to the Analogue ANT1 except this time you get both POTS interfaces and Computer interfaces so you can have both your phone and computer connected to the network.

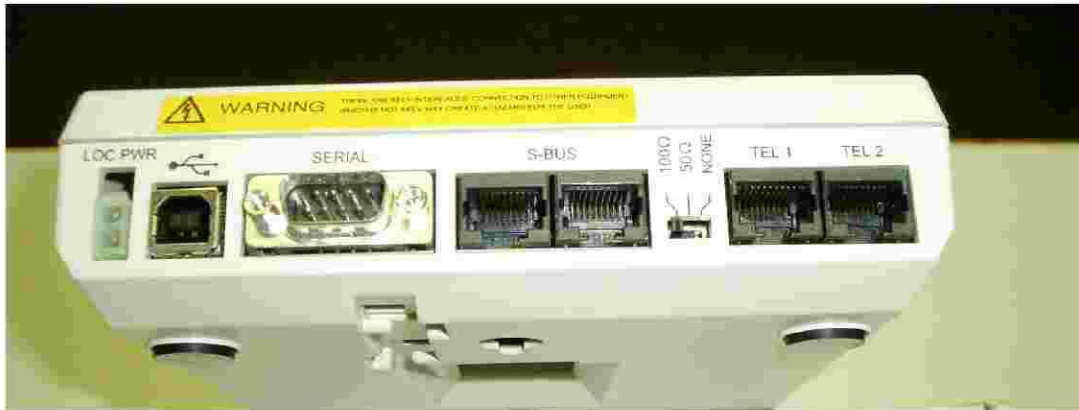


Figure 1 NT1*Star outlets

The connections to this unit are starting from left to right:

Local Power

USB interface to the computer

RS232C computer interface

S_{bus} interface used for connecting to ISDN Terminal Equipment (TE)

Telephone Line 1

Telephone line 2

To determine if the lines are active, simply plug your buttinski and dial 12722123, you will then get a announcement with the number you are dialling from.

The NT1* has a socket for the carrier line and two analogue telephone outlets. Where an NT1* is installed Telstra terminates the lead-in cable onto a RJ45 8P8C connector. (8P8C stands for 8 position with 8 connections). Just a fancy name for an RJ45 socket).

Telstra delivers a digital service on one pair of the lead-In cable. This is an ISDN BRA service and the voltage across this pair is nominally 100Vdc. The service is extended from the RJ45 socket to the NT1* with a fly lead terminated at both ends with an RJ45 plug.

CABLING FROM A NETWORK TERMINATION NT1*

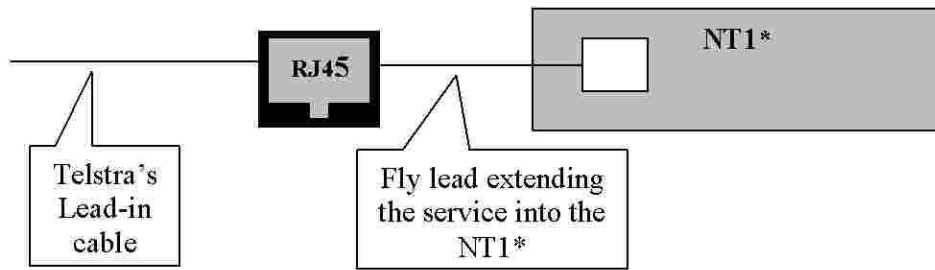


Figure 2 connection of the lead-in to the NT1*

The pair on the lead in is terminated at pins 4 and 5 on the RJ45.

Now comes the complication when you come across NT1*, the cabling of the analogue phones. To understand this clearly we need to look at the wiring in more details.

The logical connection, one would expect, is the carrier cable terminating onto the carrier socket and the analogue phone lines would connect from the Analogue Telephone Sockets on the back on the NT1*.

Unfortunately this is not the case. The NT1* has a back-feeding option, the incoming ISDN digital line is terminated on pins 4 and 5. The analogue telephones lines are back fed from the NT1* on:

- Line 1 – Pins 3 and 6
- Line 2 – Pins 1 and 2

See Figure 3 for details.

CABLING FROM A NETWORK TERMINATION NT1*

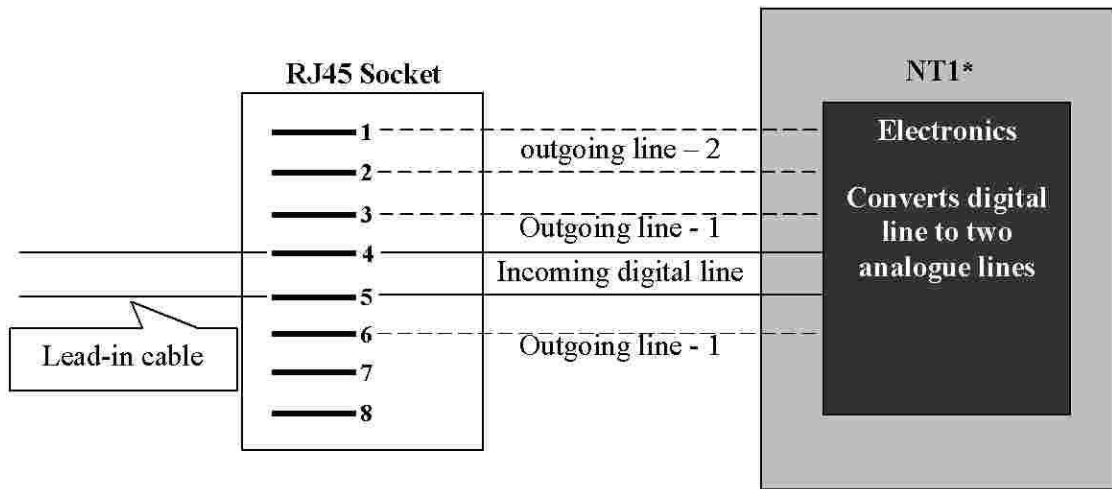


Figure 3 Wiring of NT1* on the carriers side

With reference to Figure 3, if you come across the NT1* you will find the analogue lines back feeding to the RJ45 socket and then onto the rest of the telephones.

If you are required to install any additional sockets onto either line 1 or 2, the recommended method is:

Extend the telephone lines from the sockets marked Line 1 or 2 to a new telephone socket next to the NT1* and then connect it to any additional sockets.

The reason for this being the recommended method is that it allows you to provide what the customer needs without having to access the RJ45 installed by Telstra.

M I L C  M

Training