

The Through IP TIP100 Remote Transceiver Interface enables operation of Codan NGT HF transceiver from any distance using common networking technologies such as LAN's, wireless WiFi connections and the Internet.

The TIP100 is suitable for use with all NGT transceivers, and operates through the NGT handset interface. It enables a number of applications where it is necessary or desirable to operate an NGT HF transceiver from any distance. Whether it is a few tens of meters or the other side of the world.



TIP100 Remote Transceiver Interface Unit

Key Features

Network Based

The TIP100 is a network-based remote interface for Codan NGT HF transceivers. It communicates through its 10/100MBit Ethernet interface using standard TCP/IP networking protocols.

It can be easily integrated in existing local or wide area networks using inexpensive off-the-shelf networking equipment.

Any NGT transceiver

The TIP100 is designed to operate through the NGT handset interface. At the transceiver, the TIP100 connects to the same connection where the NGT handset and speaker normally connect. At the control side, an NGT handset and speaker connects to a TIP100.

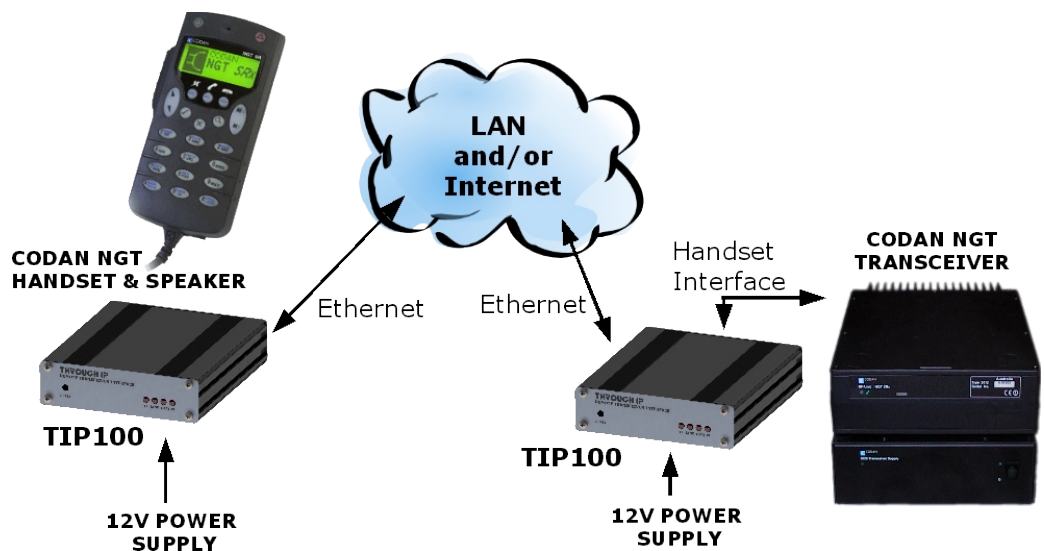
All current model NGT's are supported (VR, CR, SRx, SR, ASR, AR & AR Voice).

Full access to all NGT transceiver features

The TIP100 effectively extends the NGT handset interface cable through a network connection, with the operation of the TIP100 fully transparent to the NGT user. There is no difference between operating the transceiver remotely through the TIP100 connection, or locally with a handset directly connected to the transceiver.

Easy Installation

For ease of installation, the TIP100 reports its network address through voice announcements. Then by accessing the network address through a standard web browser, further configuration is through the in-built web pages of the TIP100.



DEVICE STATUS

MAC Address 00:08:E1:00:58:C2
 IP Address 10.1.0.41
 Net Mask 255.255.255.0
 Gateway Address 10.1.0.20
 Broadcast Address 10.1.0.255

Web application V00.03
 Firmware VA0.08(07/03/07)
 Bootloader V99.08

Configuration

Interface Mode	HANDSET
Status	LINKING
Network Latency	0 ms
Handset Power	🔌
Transceiver Power	🔌
Main Power Supply	🔌

Help
This page sh
refreshed to s
technical doc

Mode
Shows the cu
"TRANSCIEV

Status
Shows the cu
"LISTENING"
"POWERING

CONFIGURID

Applications

Some applications using standard internet networking are:

- Utilising existing network cabling within a building to connect between a control room and the transceiver on a roof top.
- Control a transceiver some kilometres away through a low cost wireless network connection.
- Operate a fixed base station transceiver from a temporary location like a hotel room.
- Replacing expensive leased lines through more cost effective ADSL type Internet connections.
- Central operation of multiple remote transceivers.

Remote Data Connection

In addition to the NGT handset connection, the TIP100 can also support an auxiliary RS232 data connection between the handset control location and the remote transceiver locations. This would allow a PC at the control location to control auxiliary equipment at the transceiver site.

Some examples are GPS tracking or mapping applications, email or data transfer with an HF data modem at the transceiver site, and antenna selectors or rotators.

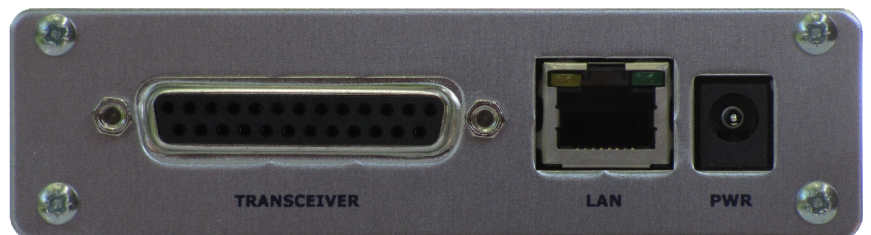
Specifications

User Interface

- Web browser-based user interface
- 4 LEDs for status indication

Transceiver & Handset Interface

- Universal DB25 Interface Connector with adaptor cable.
- Supports:
 - Audio In/Out (Balanced)
 - Speaker Out
 - Handset Control Data In/Out
 - RS232 (RX/TX/RTS/CTS)
 - 4 Digital Input/Output
 - Relay with normally-closed/normally-open contacts



TIP100 Remote Transceiver Interface back panel connectors

Network Interface

- RJ45 10/100 Mbit Ethernet (Auto-detect)
- Protocols TCP/IP, UDP, ICMP, DHCP
- Browser based management (integrated web server)
- Required data rate: about 40-150 kbit

Power requirements

- 12 VDC input range, approximately 5 Watt

Case

- Extruded aluminium. Weight 290 g. Dimensions 105 mm x 35 mm x 130 mm



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