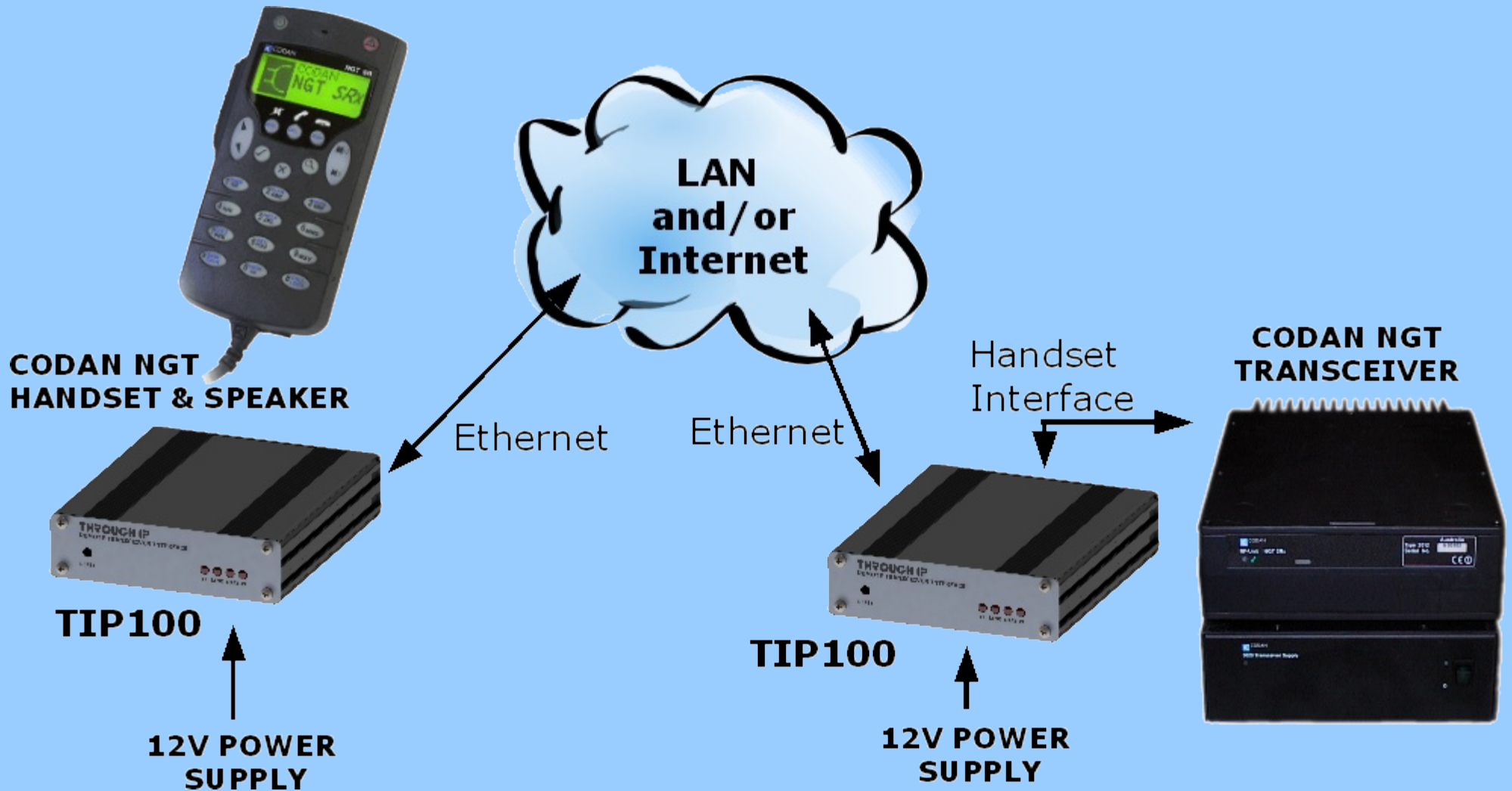


THROUGH IP

Remote Transceiver Interface for Codan NGT Transceivers



System Overview



At a Glance

- Will control any NGT through a local network or web connection
- Seamless handset operation by users
- Dispenses with the need for leased line or radio links for NRIs
- Substantial cost savings compared to dedicated leased lines

Applications

- Within a building using the existing wired computer network
- Inter-building using wireless networking
- Replace leased lines with ADSL Internet
- Operate a full HF base station from temporary locations (e.g. a 3G mobile network or Internet in a hotel room)

Features

- Full remote control for ALL NGT models
- Integrated speaker amplifier
- Automatic link maintenance
- Remote transceiver power on/off
- Easy setup
 - Network address voice announcements
 - Configuration through built-in web pages

Optional Features

- RS232 Data connection between sites for:
 - HF Data Modems
 - GPS tracking & mapping
 - Remote Site Monitoring
 - Antenna Control



Kit Contents (Handset Side)

- TIP100 Remote Transceiver Interface unit
- Interface Cable to Handset / Speaker
- 12V DC plug pack
- Setup Instructions
- Kits:
 - 150-0100 NGT Handset
 - 150-0200 NGT Handset with Data





Kit Contents (Transceiver Side)

- TIP100 Remote Transceiver Interface unit
- Interface Cable to Transceiver
- 12V DC plug pack
- Setup Instructions
- Kits:
 - 150-0101 NGT Transceiver
 - 150-0201 NGT Transceiver with Data Option





Configuration Web Interface

- Device Mode (Handset or Transceiver)
- Network Settings (Manual or DHCP)
- Transceiver / Handset Settings
- Remote reboot
- Remote software update

The screenshot displays the 'DEVICE CONFIGURATION' web interface. At the top, there is a header with the 'THROUGH IP' logo and a table of system information:

MAC Address	00:08:E1:00:58:C2	Web application	V00.03
IP Address	10.1.0.41	Firmware	VA0.08(07/03/07)
Net Mask	255.255.255.0	Bootloader	V99.08
Gateway Address	10.1.0.20		
Broadcast Address	10.1.0.255		

Below the header is a navigation menu with tabs: Status, Setup, Application, Reboot, and Update. The 'Application' tab is selected, showing the 'APPLICATION' section with a dropdown menu set to 'Codan NGT Handset Interface'.

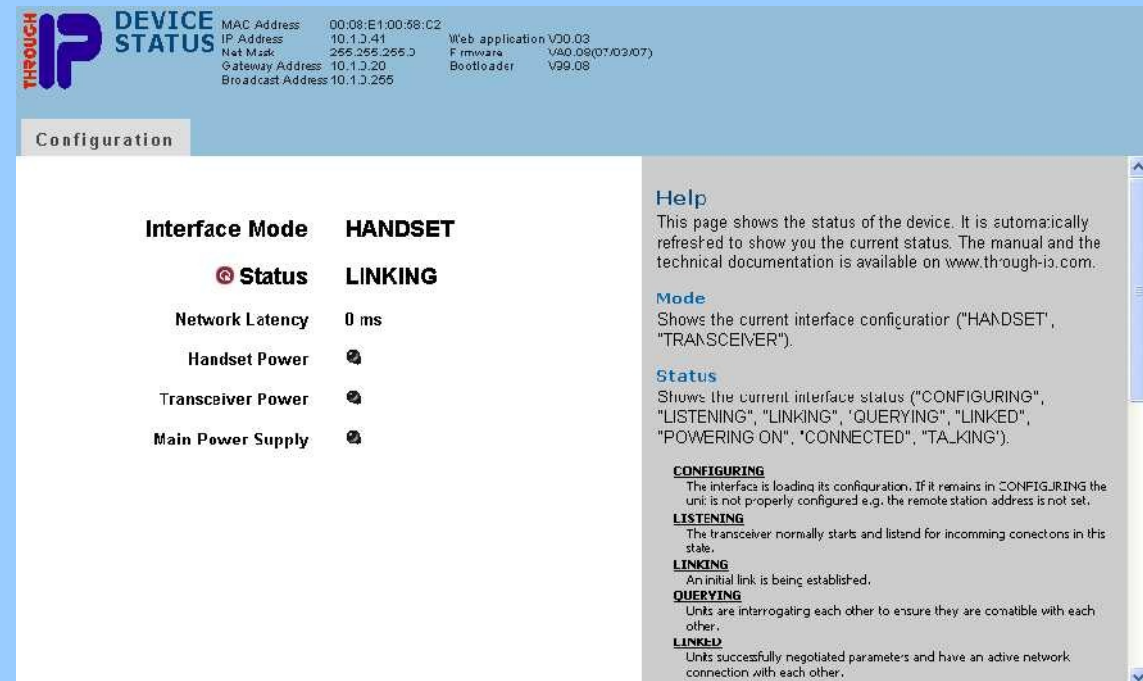
The 'NETWORK SETTINGS' section includes:

- Use SonicIP:** Radio buttons for 'Yes' and 'No' (selected).
- IP Address:** Four input fields containing 10, 1, 0, and 41.
- Netmask:** Four input fields containing 255, 255, 255, and 0.
- Gateway IP Address:** Four input fields containing 10, 1, 0, and 20.
- Primary DNS:** Four input fields containing 0, 0, 0, and 0.
- Alternative DNS:** Four input fields containing 0, 0, 0, and 0.
- DHCP Host Name:** An empty text input field.

At the bottom of the settings are 'Apply' and 'Cancel' buttons. On the right side, there is a 'Help' section with a 'NETWORK SETTINGS' subsection containing instructions for 'Use SonicIP', 'IP Address', 'Netmask', and 'Gateway IP Address'.

Status Web Interface

- Current device status
- Online help
- Current IP addresses / software versions



THROUGH IP DEVICE STATUS

MAC Address: 00:08:E1:00:88:C2
 IP Address: 10.1.3.41
 Net Mask: 255.255.255.0
 Gateway Address: 10.1.3.20
 Broadcast Address: 10.1.3.255

Web application: V00.03
 Firmware: V00.08(07/03/07)
 Bootloader: V09.08

Configuration

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

Help
 This page shows the status of the device. It is automatically refreshed to show you the current status. The manual and the technical documentation is available on www.through-ip.com.

Mode
 Shows the current interface configurator ("HANDSET", "TRANSCIVER").

Status
 Shows the current interface status ("CONFIGURING", "LISTENING", "LINKING", "QUERYING", "LINKED", "POWERING ON", "CONNECTED", "TALKING").

CONFIGURING
 The interface is loading its configuration. If it remains in CONFIGURING the unit is not properly configured e.g. the remote station address is not set.

LISTENING
 The transceiver normally starts and listen for incoming connections in this state.

LINKING
 An initial link is being established.

QUERYING
 Units are interrogating each other to ensure they are compatible with each other.

LINKED
 Units successfully negotiated parameters and have an active network connection with each other.