# KENWOOD
## Listen to the Future

# NEXEDGE®

# KTI-4
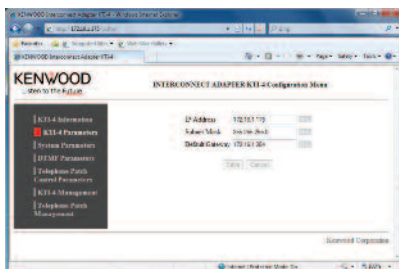## Telephone Interconnect Adapter

# Expand Your Reach

**Kenwood now offers an easy way to add telephone interconnect to your NEXEDGE® trunked system.**

The KTI-4 Telephone Interconnect Adapter connects NEXEDGE® NXR-700/800-based trunked systems to analog telephone patch such as the Zetron Model 30, providing outbound radio to phone system calls and phone system to radio calls. The KTI-4 serves as modulator or demodulator between the NEXEDGE® digital system and the analog PSTN/PABX system.  KTI-4 units can be installed at a trunked site or anywhere in the world through a VPN connection.  Offices located anywhere can call radio users on a factory floor or in the field and vice-versa.

## MAIN FEATURES

- **KTI-4 On-site & Off-site Installations**
- **Up to 6 KTI-4 Lines per Trunked Site**
- **Up to 100 KTI-4 Lines per Trunked Network**
- **Independent Inbound & Outbound Calls Enabled**
- **Speed Dial:**
   - ▮ Limit Calls to Specific Phone Numbers / PABX Extensions
   - ▮ 255 Numbers Max. (32 digits per number)
- **Call Restrictions Settings:**
   - ▮ Permit / Inhibit Toll, Long Distance and International Dialing
   - ▮ Permit / Inhibit Pay Per Call Services
- **AMBE+2™ Vocoder (digital / analog speech conversion)**
- **NXDN® Scrambler: Secure Voice in Both Directions**
- **DTMF Command Sets for Zetron Model 30 Setup**
- **DTMF Tone Timers:**
   - ▮ Match Interconnect Brand / Model
   - ▮ Match Phone System Requirements
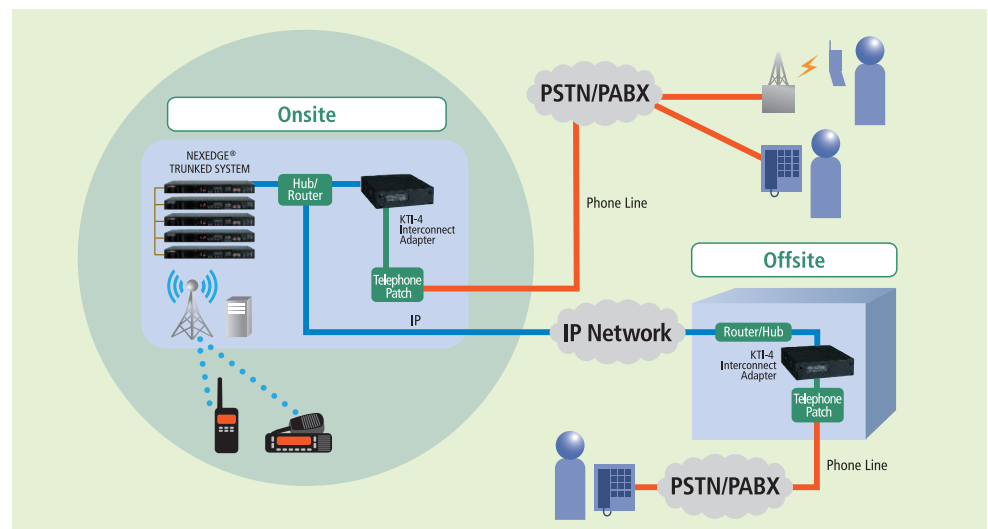- **Status LEDs: Power, Communications, Full Duplex, 100-Base TX**

Note: The NEXEDGE® KTI-4 requires an external telephone patch that meets telephony regulations in the country of use and compatible with KTI-4 specifications (see back).
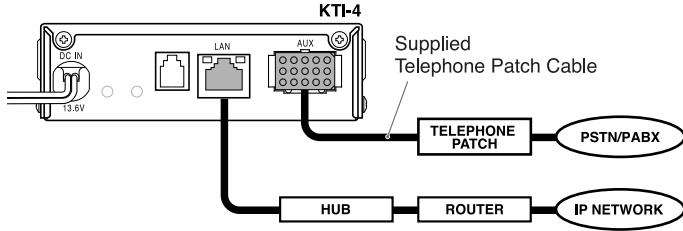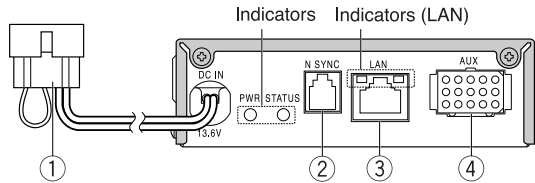

Web browser interface


KTI-4 Interconnect Adapter

# Installation and Connection



KTI-4

Supplied Telephone Patch Cable

TELEPHONE PATCH → PSTN/PABX

HUB — ROUTER — IP NETWORK

# Rear



Indicators   Indicators (LAN)

① **DC Power supply connector**
Connect to Repeater or external power supply.

② **N SYNC jack**
This jack is currently not used.

③ **LAN jack**
Connect to Ethernet. Use a shielded, Category 5e or higher standard LAN cable shorter than 3 meters.

④ **AUX jack**
Connect to Telephone Patch via the supplied Telephone Patch Cable.

## Indicators

| Indicator | Color | Meaning |
|---|---|---|
| PWR | Green | Lights while the power is ON. |
| STATUS | Green | Lights during communications. |
| LAN : Right (Full Duplex) | Green | Lights when in Full Duplex mode. Blinks when a collision status is detected in half Duplex mode. |
| LAN : Left (100Mbps) | Green | Lights when in 100Base-TX mode. |

# Main Specifications

| | | KTI-4 |
|---|---|---|
| Operating Voltage | Standard | 13.6 V DC |
| | Range | 10.8 ~ 15.9 V DC |
| Current Rating | | 200 mA max. |
| Temperature Range | | -22°F ~ +140°F  (-30°C ~ +60°C) |
| Dimensions W x H x D | | 4.17 x 1.26 x 4.92 inches / |
| (projections not included) | | 106 x 32 x 125 mm |
| Weight | | 19.8 oz / 560 g |
| Approved Standards | FCC | Part 15 Subpart B |
| | IC | IC ES-003 |
| | EMS | EN55022, EN55024 |
| | Safety | EN60950-1, EN 60065 |

# Telephone Patch Cable



3  1

15  13

Connect to Telephone Patch

| Pin No. | Wire Color | I/O | Pin Name | Signal type | Description |
|---|---|---|---|---|---|
| 2 | Blue | I | AUD IN | Analog | Audio Input from Telephone Patch. Input Level : -40 to +6 dBm (7.8 m to 1.55 Vrms) Input Impedance : 10 kΩ min |
| 3 | Green | — | A GND | A GND | Analog GND |
| 5 | White | O | AUD OUT | Analog | Audio Output to Telephone Patch. Output Level : -40 to +3 dBm (7.8 m to 1.1 Vrms) Output Impedance : 1 kΩ max |
| 6 | Violet | — | A GND | A GND | Analog GND |
| 11 | Yellow | O | PTT OUT | Digital | PTT Output to Telephone Patch. Open collector Do not supply a voltage above the DC IN value. Allowable Current : 200 mA max |
| 13 | Orange | I | PTT IN | Digital | PTT Input from Telephone Patch. 47 kΩ Pull Up to 5.0 V ± 4 % VIH : 2 to 5.5 V VIL : 0 to 0.8 V |

# Recommended Telephone Patch



ZETRON®

**Model 30***
WORLDPATCH

*Must use Model 30 Revision 1.03 or later for KTI-4 use.

Kenwood follows a policy of continuous advancement in development. For this reason specifications may be changed without notice.
AMBE+2™ is a trademark of Digital Voice System Inc.
NXDN® is a registered trademark of Kenwood Corporation and Icom Inc.
NEXEDGE® is a registered trademark of Kenwood Corporation.

## Listen to the Future

Kenwood has always connected with people through sound.  Now we want to expand the world of sound in ways that only Kenwood can, listening to our customers and to the pulse of the coming age as we head toward a future of shared discovery, inspiration and enjoyment.