KENWOOD

NEXEDGE®

KTI-3
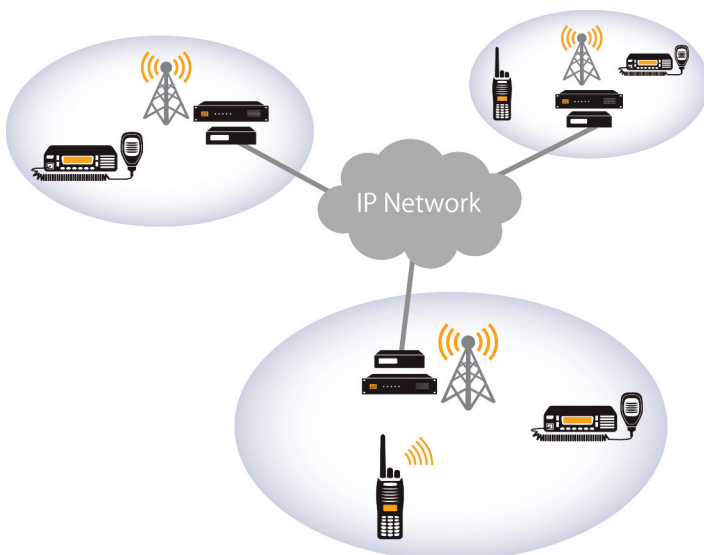
NXR-710/810 Network Interface Unit

For NEXEDGE® Conventional IP Networks & Voting Systems

The KTI-3 network interface unit provides NXR-710/810 repeaters with the required Ethernet capability for configuring NEXEDGE® Conventional IP networks and Voting systems.

CONVENTIONAL IP NETWORKS

Subscriber zones can be programmed for "Normal Channel Select" for traditional conventional operation and/or "Automatic Site Roam" which allows subscribers to scan for site beacon signals to lock onto for making/receiving network calls.
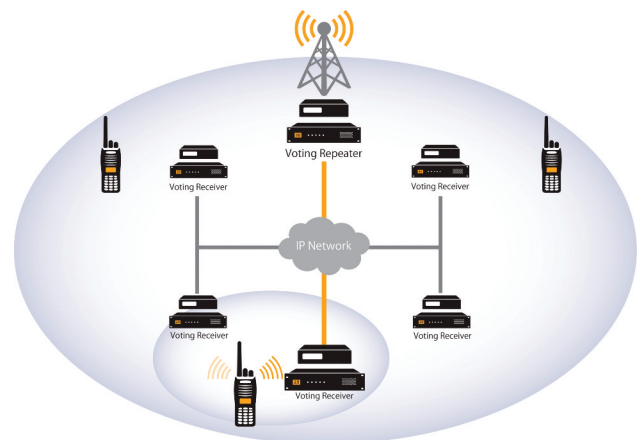
- 16 or 48 Site Configurations [1]
- All or Limited Site Transmissions [2]
- Normal or Automatic Site Roam (per Zone) [3]
- Beacon Signal
- Remote IP Programming & Firmware Updates [4]
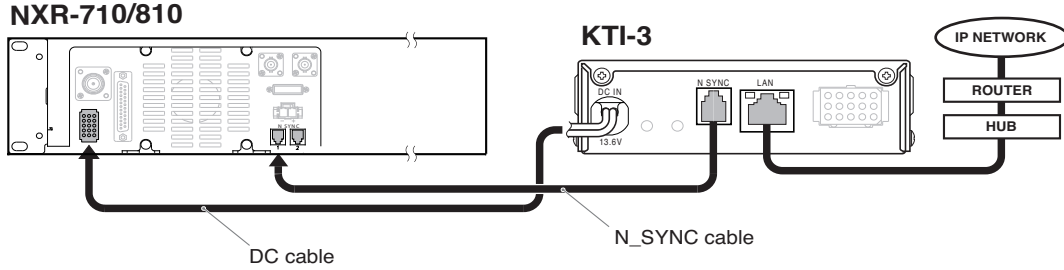- Mix NXR-710/810 & NXR-700/800 Repeaters [5]

CONVENTIONAL VOTING SYSTEMS[6]

Voting systems extend the portable talk-in range of a NXR-710/810 conventional repeater by utilizing a constellation of satellite receivers linked to the repeater site. A portable received by one or more of the satellite receiver sites send signal strength data via IP link to the repeater site which compares and selects the site with the best RSSI signal ("votes") to re-transmit the portables call.
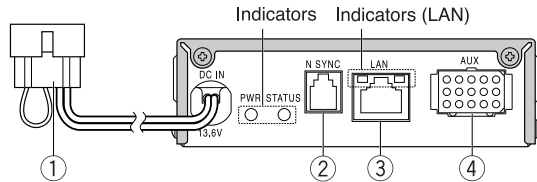
- One KWD-NX10VTR Option (per central repeater)
- One KTI-3M (per central repeater & each satellite site)
- Satellite sites use a complete NXR-x10 (but receiver only)

IP Network

Voting Repeater
Voting Receiver
Voting Receiver
IP Network
Voting Receiver
Voting Receiver
Voting Receiver

Installation and Connection

NXR-710/810

KTI-3

IP NETWORK

ROUTER

HUB

DC cable

N_SYNC cable

Rear

Indicators   Indicators (LAN)

① ② ③ ④

① **DC Power supply connector**
Connect to Repeater or external power supply
② **N SYNC jack**
Connect to Repeater using N SYNC Cable
supplied by Repeater
③ **LAN jack**
Connect to Ethernet. Used a shielded,
Category 5e or higher standard LAN cable
shorter than 3 meters
④ **AUX jack**
This jack is currently not used

KTI-3 Network Interface Unit

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-3
GENERAL		
Operating Voltage	Standard	13.6 V DC
	Range	10.8 ~ 15.6 V DC
Current Rating		200 mA max.
Temperature Range		-22°F ~ +140°F (-30°C ~ +60°C)
Dimensions W x H x D (projections not included)		4.17 x 1.26 x 4.92 inches / 106 x 32 x 125 mm
Weight		17.3 oz / 490 g
Approved Standards	FCC	Part 15 Subpart B
	IC	IC ES-003
	EMS	EN55022, EN55024
	Safety	EN60950-1, EN 60065

Specifications are subject to change without notice, due to advancements in technology.
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Footnotes from front:
[1] *Up to 16 sites using uni-cast routing; 17 to 48 sites require multi-cast routing.*
[2] *Calls are transmitted from all sites unless limited in network programming.*
[3] *Roam Operation: Subscriber units scan all channels for voice traffic activity or an idle beacon signals and lock onto a channel for use. Subscriber units do not register and there is no network location registration as in trunked networks.*
[4] *Remote IP programming/firmware upload capability added in NXR-x10 V1.5 firmware and KPG-129D V1.5 with KPT-100 software.*
[5] *Both NXR-710/810 & NXR-700/800 repeaters can be mixed in the same Conventional IP network (NXR-x00 models have network interface built-in and do not need a KTI-3).*
[6] *All NXR-710/810 units require V1.5 or later firmware & voting system settings using the KPG-129D NXR-710/810 programming software V1.50 or later.*

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