

NEXEDGE TYPE-D Trunking

NXR-x10 Field Upgrade Procedure

Hardware Requirements:

1. NXR-x10 repeater(s)
2. N-Sync cable(s) – (included with NXR-x10 or KWD-10DTR)
3. Programming Cable KPG-46UM

Software Requirements:

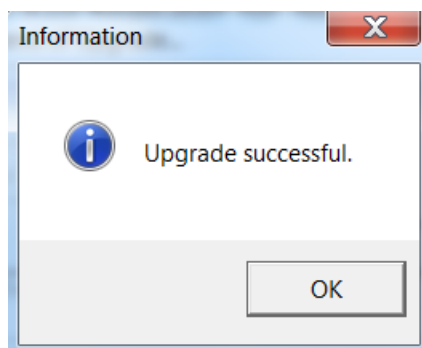
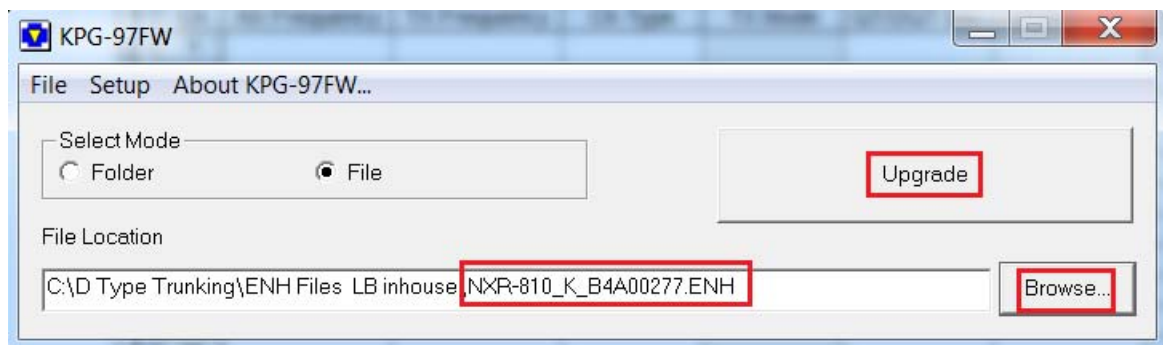
1. KPG-129DN V3.00 or higher (backward compatible with older versions)
2. NXR-x10 Firmware V3.00 or higher (backward compatible with older versions)

Ordering KWD-10DTR NEXEDGE Type-D Trunking Field Upgrade Option:

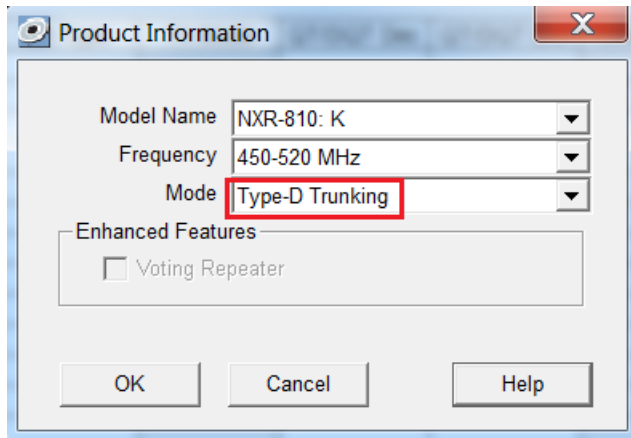
1. Complete and submit a NEXEDGE Type-D Field Upgrade Form
(required for Model and serial number information)
2. Order one L-1791 KWD-10DTR Option per repeater (consist of the following)
 - a. ENH Files one per repeater (serial number specific)
 - b. KPG-97FW software program (uses ENH files for Type-D Trunking Upgrade)
 - c. Firmware

Configuring NXR-x10 Repeater for NEXEDGE Type-D Trunking Field Upgrade

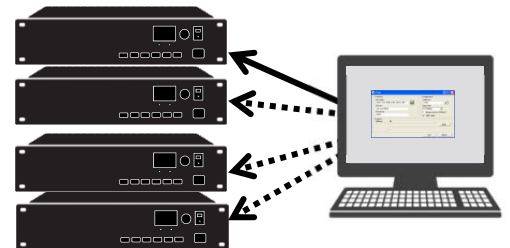
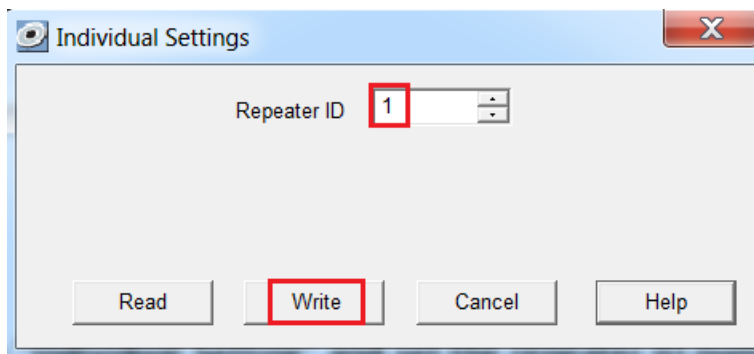
1. Unplug all the N-Sync cables from the repeaters.
2. Connect repeater to your PC using KPG-46UM
3. Update Firmware on all repeaters using FPRO.exe
4. Install and open KPG-97FW Updater software. Use Browse button to locate ENH file of connected repeater. Hit Upgrade button to complete Upgrade, a confirmation window will appear. Update each repeater one at a time.



5. Install and open KPG-129DN Ver3.00 or later on your PC
6. Select "Model" > "Product Information"/Mode> "Type-D Trunking"



7. Select “Program” > ”Individual Setting” and set the repeater ID number.
Note: Each repeater must have a different ID (1-30)

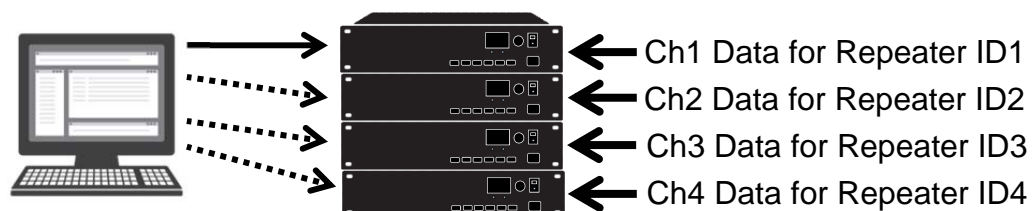


8. Select “Edit” > “Channel Information” and set the TX/RX frequencies and set Channel Type to NXDN.

Ch	RX Frequency	TX Frequency	Ch Type	TX Mode	QT/DQT Dec	QT/DQT Enc	RAN Dec	RAN Enc	Ch Name
1	455.100000	450.100000	NXDN		---	---			1
2	465.200000	460.200000	NXDN		---	---			2
3	466.200000	461.200000	NXDN		---	---			3
4	467.200000	462.200000	NXDN		---	---			4
5									
6									
7									

Note: All repeaters should be programmed with the same data file.

Note: Repeater ID# must equal Ch#....see example below.



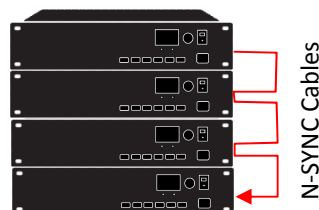
9. Select “Edit” > “NXDN” > “Type-D Trunking”

Note: Select a Repeater ID for Primary Master Repeater and Secondary Master Repeater.

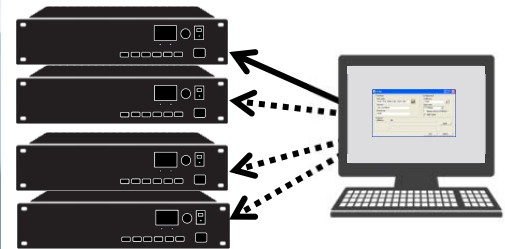
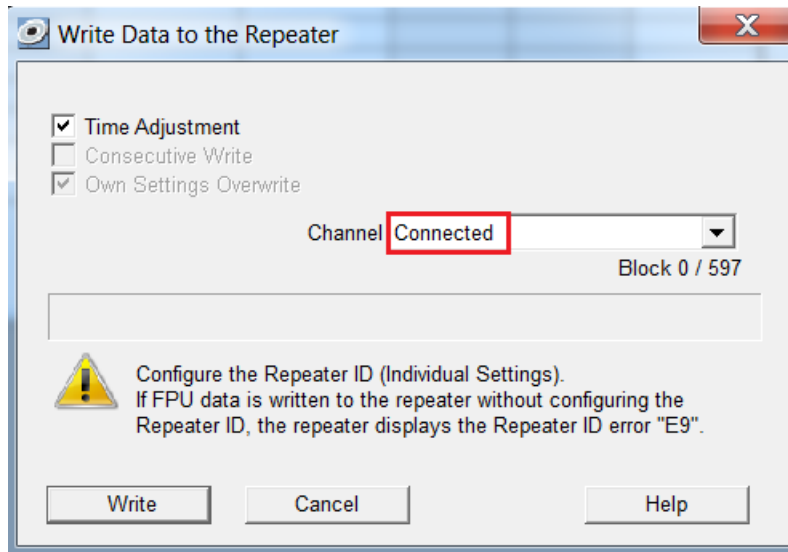
Note: Master repeater sends synchronized Data via N-SYNC cable

The screenshot shows the 'NXDN' software window with the 'Type-D Trunking' tab selected. The 'Type-D Trunking' tab is highlighted with a red box. Below it, the 'Primary Master Repeater' and 'Secondary Master Repeater' fields are also highlighted with red boxes. The 'Area Code' is set to 0. The 'Idle Message Transmit Interval Time [s]' is set to 10. The 'Disconnect Message Counter' is set to 2. The 'Type-D Trunking Cross-busy' checkbox is unchecked. The 'Channel Release Delay Time [s]' is set to 'Off'. The 'NXDN ESN Validation' checkbox is unchecked. The 'Manufacturer Limitation' checkbox is unchecked. Below these, there are eight input fields for manufacturer limitations, numbered 1 through 8. Field 1 contains the value '68'. Fields 2 through 8 are empty. At the bottom of the window are 'Close' and 'Help' buttons.

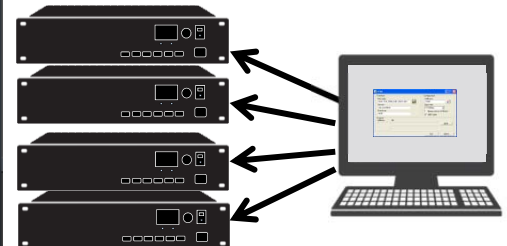
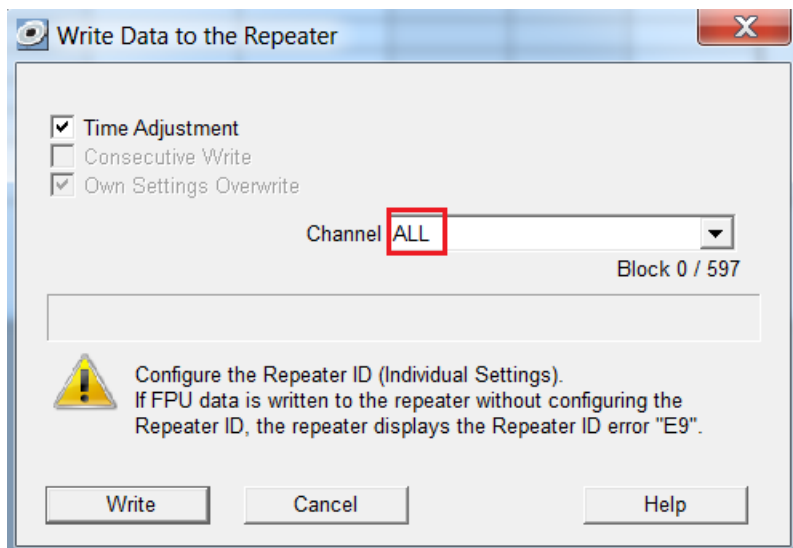
10. Connect N-SYNC cables between repeaters from N-SYNC 1 to N-SYNC 2



11. Write Data to each repeater



12. After all repeaters have the same FPU data and are connected via N-SYNC cables you can perform a Channel ALL when writing



13. Check Repeater Operation