



STEP INTO THE FUTURE WITH SERIOUSLY SMART PMR LINKING SOLUTIONS

~ Supports Large Number of Channels

More Than 10 P25 Channels in 25 kHz Narrowband Channels
More Than 13 DMR Channels in 25 kHz Narrowband Channels

~ Very Low Latency

Typically 8 ms in 25 kHz Narrowband Channels

~ Low Jitter & Bit Error Rate (BER)

Jitter of 50 ns & BER of 1×10^{-10} Achievable

~ Long Range

Greater than 100 kms from High Sites

~ Advanced Security

IP Data Encryption & Firewall

~ Advanced Diagnostics

Local & Remote Configuration & Built-in Diagnostics



Network Digital Link (NDL)

is a Point-to-Point
Customized Solution for
Linking Critical PMR Sites.

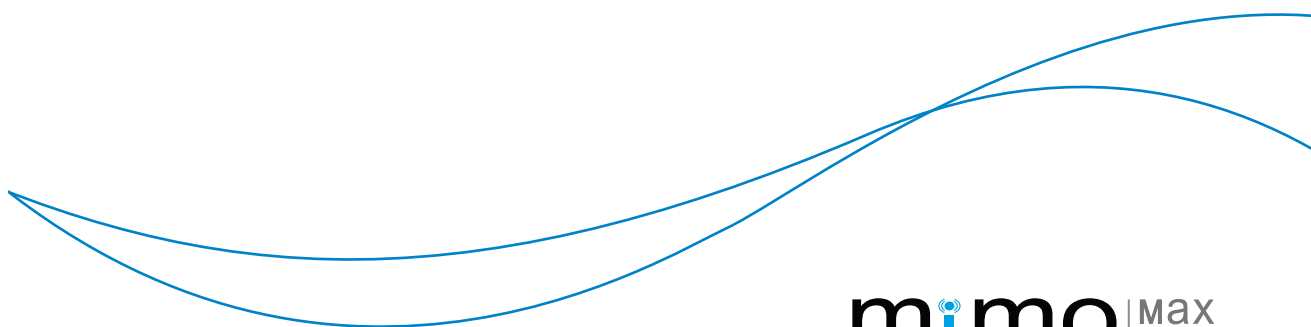
NDL Supports

MPT 1327

TETRA

DMR

P25



MiMOMax NDL

Seriously Smart

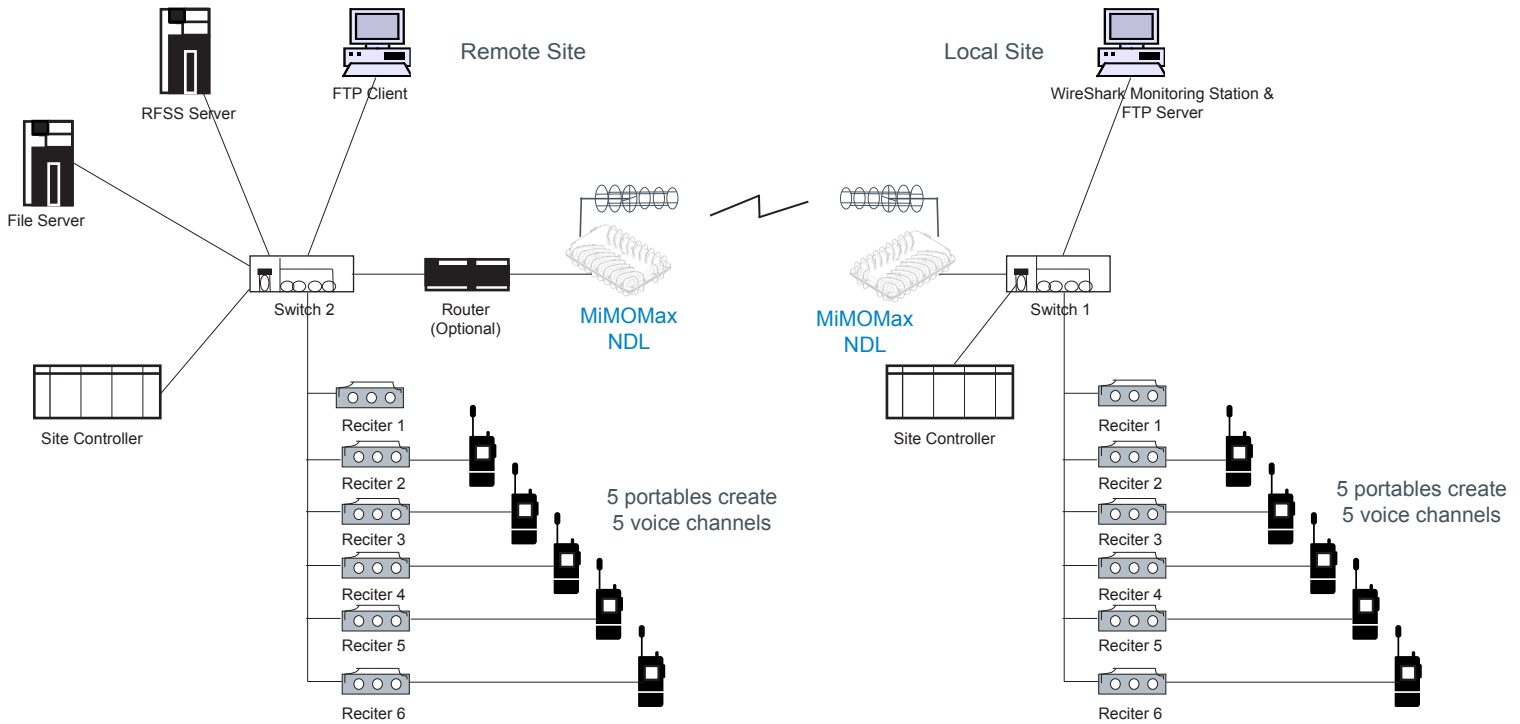


Figure: MiMOMax NDL Linking in a 5+1 Channel P25 Trunking System

| 25 kHz | P25 | | DMR | |
|--------|---------------------------------|----------------------|---------------------------------|----------------------|
| | Min. Number of Trunked Channels | Residual Ethernet BW | Min. Number of Trunked Channels | Residual Ethernet BW |
| QAM256 | 10 Channels | 123 kbps | 13 Channels | 126 kbps |
| QAM64 | 8 Channels | 79 kbps | 11 Channels | 79 kbps |
| QAM16 | 5 Channels | 47 kbps | 7 Channels | 49 kbps |
| QPSK | 2 Channels | 13 kbps | 3 Channels | 18 kbps |

These tables outline the "minimum" number of trunked or conventional voice channels that can be carried when using a particular modulation rate in a MiMOMax link occupying 25 kHz and 12.5 kHz bandwidths respectively.

The residual bandwidth in the tables is available for other applications. In QAM 256, M-CAM, highly intelligent adaptive modulation, is at work to dynamically optimize the system to the highest possible data rate for that path.

| 12.5 kHz | P25 | | DMR | |
|----------|---------------------------------|----------------------|---------------------------------|----------------------|
| | Min. Number of Trunked Channels | Residual Ethernet BW | Min. Number of Trunked Channels | Residual Ethernet BW |
| QAM256 | 5 Channels | 46 kbps | 7 Channels | 53 kbps |
| QAM64 | 4 Channels | 24 kbps | 5 Channels | 38 kbps |
| QAM16 | 2 Channels | 13 kbps | 3 Channels | 23 kbps |
| QPSK | N/A | N/A | 1 Channel | 8 kbps |



For FREE professional consultation to discuss requirements and solutions specific to your business needs, please **contact us** on +6433581070. Alternatively, visit our website on the address below. We look forward to assist you in reaching your business goals.

NDL SUPPORTS ANALOGUE TO DIGITAL TRANSITION

Using a modified ADPCM vocoder, MiMOMax can support a number of tone transparent, low latency, VF channels in both 12.5 kHz and 25 kHz channels to link analogue voice while simultaneously providing IP for linking digital radio channels. When digital base stations are being used in analogue mode, two or more concurrent G711 voice streams can be transported while also providing IP connectivity. Details of bandwidth calculations are available on the MiMOMax website: <http://www.mimomax.com/assets/Application-Notes/4WA-NIB-Installation-Guide-2011.pdf>