



Introducing dPMR™ **Mode 3** Digital Trunking

The final step where all the possible functionality of the protocol is available



dPMR™ Mode 3 Digital Trunking

dPMR is a digital radio protocol specifically targeting highly functional solutions by using low cost and low complexity technology.



dPMR Mode 3 is the final step where all the possible functionality of the protocol is available. Mode 3 can offer multichannel, multisite radio networks that are fully managed by specific beacon channels at each radio site. This ensures optimum use of spectrum and optimum density of radio traffic.

dPMR is a narrowband (6,25 kHz) FDMA technology that is 100% digital which offers many forms of voice and /or data applications.

The FDMA protocol specified in both TS 102 490 and TS 102 658 ETSI standards complies with the European Harmonised Standard EN 301 166-2 for use in 6,25 kHz channels.

The emphasis with dPMR is on a fully functional radio system that can seamlessly integrate with IP networks, capable of offering customisable application software tailored to your business communication needs. Combined with the true low-cost approach that is the core of the dPMR protocol, the overall result is the optimum solution for users and network operators alike.

dPMR Mode 3 solutions offer wide area multisite, multichannel trunked repeaters capable of national and international coverage if required. dPMR radio equipment can be easily integrated into existing IT networks with both text messaging and voice calls using the voice and data functionality of dPMR. Solutions already exist for PC based remote control of dPMR base stations to give completely configurable dispatcher functionality.

dPMR Mode 3 also offers users the possibility to operate efficiently in 'direct mode' separately from the network or beyond the coverage area of the network for special purposes such as on-scene activities.

FYLDE MICRO

Multi-Lingo™ trunking controller from Fylde Micro supports dPMR & MPT1327. MultiLingo has been designed to support these protocols within the same radio site, and at the same time. This allows customers to select their protocol of choice as and when they are ready.

Each 1u high chassis can handle up to 4 simultaneous mixed mode communications
Up to 32 channels per site | Connection is via dual 100/T Ethernet CAT5



IC-F3162DT / IC-F4162DT
VHF / UHF DIGITAL & ANALOGUE TRANSCEIVER

IDAS dPMR and analog FM mixed mode operation

Frequency coverage : 136–174MHz, 400–470MHz

5W RF output power (VHF and UHF)

Operating time: 14 hours - Large capacity Lithium-Ion battery pack

Dust-protection and waterjet resistance equivalent to IP55

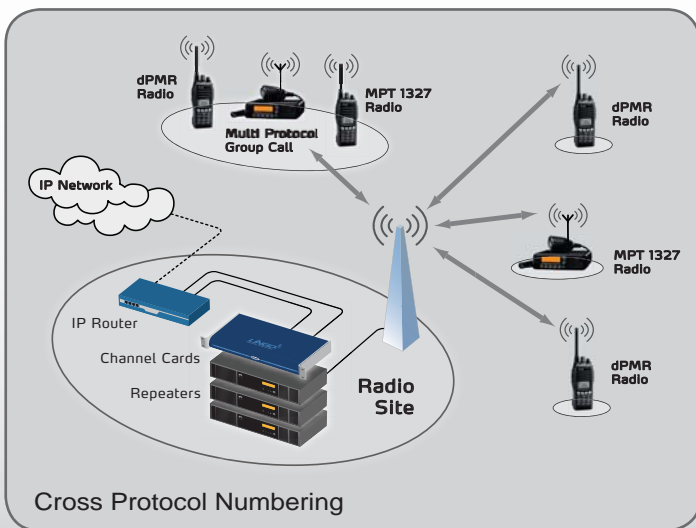


This partnership brings together the pioneering work undertaken by Icom in 6.25 kHz narrowband digital protocol development with the unrivalled experience amassed by Fylde in the development of rugged and reliable trunked radio systems over the past 25 years.



Fylde & ICOM solutions offer the best low risk digital migration strategy

- Unique migration solution from MPT to dPMR™
- Open standards based (ETSI TS 102 658)
- Interoperable cross protocol calling dPMR to MPT
- Up to 1000 sites & 500,000 subscribers
- Single site trunking to nationwide network scalability
- Web based applications include AVL & Dispatcher
- Includes POTS / SIP phone connectivity
- World renowned Fylde / Icom support and reliability



Interoperable Cross Protocol Numbering

dPMR and MPT1327 have different numbering schemes. To enable communication between these protocols some form of translation must be provided. Fylde Micro's Multi-Lingo controller uses a unique translation table to ensure that dPMR users can be included in MPT1327 group calls and vice versa. The intention is to have no restriction on protocol to protocol communication.



IC-FR5100 / IC-FR6100
VHF / UHF DIGITAL & ANALOGUE REPEATER

Frequency coverage : 136–174MHz, 400–470MHz

IDAS dPMR mode and analog FM mode, mixed mode operation

25W output power at 100% duty operation

"2 channel in 1 box" configuration (Optional UR-FR5100 / UR-FR6100 required)



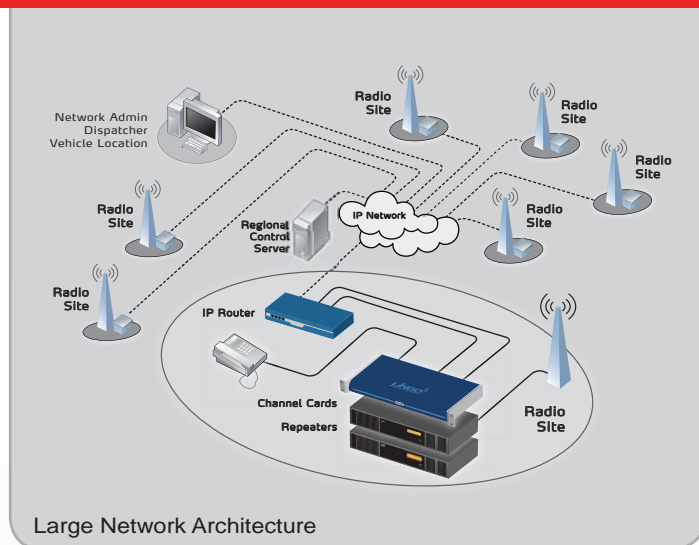
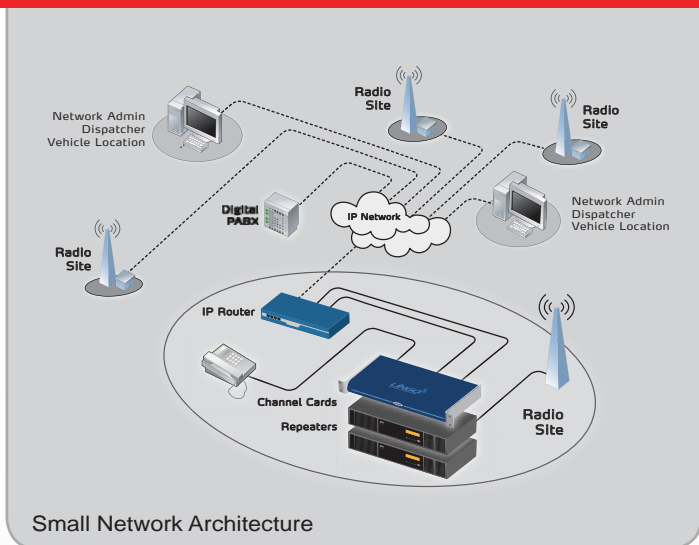
IC-F5062D / IC-F6062D
VHF / UHF DIGITAL & ANALOGUE TRANSCEIVER

IDAS dPMR and analog FM mixed mode operation

Frequency coverage : 136–174MHz, 400–470MHz

25W RF output power

IP54 dust-protection and splash resistance (Front panel only)



FYLDE MICRO

Next Generation System Control Suite

SYSCON-SUITE™ In development now will include full system control, dispatching and AVL all via an IP connection accessible via a desktop browser. This suite of applications will include IP audio digital recording, man down and lone worker functionality as well as web based mapping & dispatch.

Le nom dPMR est une marque commerciale de dPMR MOU. Toutes les autres marques commerciales sont la propriété de leurs détenteurs respectifs.

www.icom-france.com | www.dpmr-mou.org | www.fyldemicro.com

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