



# DM3G



## eDMR Mobile Terminal

Digital TDMA Technology combined with Analogue Technology

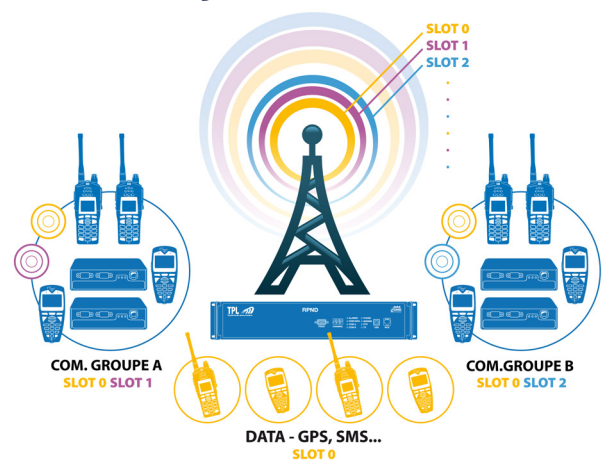
Mobile terminal **DM3G** is the latest digital radio using high spectrum efficient TDMA technology designed by **TPL Systèmes**. Capable of operating in analogue as well as in digital eDMR networks, it offers a great versatility.

The Mobile **DM3G** is equipped with a user-friendly, ergonomic MCE keypad loudspeaker/microphone built around a large-size backlit alphanumeric display, ideal for the transmission and reception of short data messages and various call modes. The wireless MCE (also available in its

cable version) incorporates a BT module with rechargeable battery that provides several hours of operations and guarantees the user cable-and movement-free operating conditions similar to a hand portable, over a distance of about 100m (line of sight) from the vehicle.

A built-in GPS receiver stores GPS data for retrieval or retransmission over the radio network or through the terminals outputs. DM3G can also easily be used only for data transmission as a modem

### 3 slots TDMA eDMR



## Caractéristiques

Services	
<b>Call types:</b> <ul style="list-style-type: none"> <li>- Open channel calls</li> <li>- Individual and privacy calls</li> <li>- Group calls (static and dynamic)</li> <li>- Emergency calls</li> <li>- Include calls</li> <li>- PSTN/ISDN incoming and outgoing calls</li> </ul>	<b>Data:</b> <ul style="list-style-type: none"> <li>- Status code transmission</li> <li>- SMS (Short data messages)</li> <li>- 9,6 Kbps (raw) data transmission rate</li> </ul> <b>Simplex Mode :</b> <ul style="list-style-type: none"> <li>- Open channel voice calls</li> <li>- Individual calls</li> </ul>
<b>Others:</b> <ul style="list-style-type: none"> <li>- Priority and pre-emptive calls</li> <li>- Online upgradeable software</li> </ul>	<b>Options:</b> <ul style="list-style-type: none"> <li>- Internal GPS</li> </ul>
Other features	MCE Keypad Loudspeaker/Microphone with BT
<ul style="list-style-type: none"> <li>- Aluminium chassis</li> <li>- VSWR protection with detected value display</li> <li>- Power supply protected against inverted polarity, transients and overvoltages (above 17V)</li> <li>- External connections : 1 DB44 and 1 USB</li> </ul> <b>Main chassis dimensions and weight:</b> <ul style="list-style-type: none"> <li>- Width : 180 mm</li> <li>- Height : 38 mm</li> <li>- Depth : 177 mm</li> <li>- Weight : 1,5 Kg</li> </ul>	<ul style="list-style-type: none"> <li>- The BT function (wireless) is made up of two modules. The first module is integrated into the MCE unit and the second module is installed in the radio unit.</li> <li>- Powered by a rechargeable polymer lithium battery rechargeable when mounted on its support, the MCE provides 8 hours of operating time.</li> </ul>
Technical Radio Specification	
<b>Generals:</b> <ul style="list-style-type: none"> <li>- Frequency band : 33-50MHz, 68-88 MHz, 146-174MHz</li> <li>- Channel number : &gt; 200</li> <li>- Operating mode : Simplex, semi-duplex, duplex</li> <li>- Channel spacing : 12,5 - 20 - 25 kHz</li> <li>- RF power : 25 W</li> <li>- Power supply : 10,8 to 15,5 V</li> <li>- Audio power : 10 W / 8 Ohms</li> <li>- Raw data rate : 9,6 Kbps</li> <li>- Operating temperature : -10°C to +70°C</li> <li>- Dust and rain-proof : IP54</li> </ul> <b>Transmitter:</b> <ul style="list-style-type: none"> <li>- 4 programmable RF levels : 5 / 10 / 15 / 25 W</li> <li>- Frequency stability : ± 5ppm</li> <li>- Analogue residual noise : &lt; -50 dB</li> <li>- Transmitting consumption : &lt; 5 A</li> </ul>	<b>Receiver:</b> <ul style="list-style-type: none"> <li>- Sensitivity for : <ul style="list-style-type: none"> <li>Analogue : -115 dBm @20dB SINAD</li> <li>Digital : &lt; -117 dBm for BER* 1%</li> </ul> </li> <li>- Intermodulation protection : &gt; 70 dB</li> <li>- Dynamic RSSI : 70 dB</li> <li>- Crystal filter selectivity : &gt; 70 dB</li> <li>- Consumption in standby mode : &lt; 500 mA</li> </ul> <b>Complies with standards:</b> <ul style="list-style-type: none"> <li>- ETS 300 086 - 300 113</li> <li>- ETSI 300-279 - EN 55022-55024</li> <li>- RED Directive</li> </ul>
Modulation Types	Other models
<ul style="list-style-type: none"> <li>- Digital TDMA - 4FSK</li> <li>- Analog phase modulation (11KOG3E)</li> <li>- Analog selective calls (CTCSS, etc..)</li> <li>- Digital selective calls Digital TDMA - 4FSK</li> <li>- Analog phase modulation (11KOG3E)</li> <li>- Analog selective calls (CTCSS, etc..)</li> <li>- Digital selective calls</li> </ul>	<ul style="list-style-type: none"> <li>- DM3G 50W</li> <li>- eBase desktop station</li> </ul>

\*BER : Bit Error Rate