



DM3G

eDMR Mobile Terminal

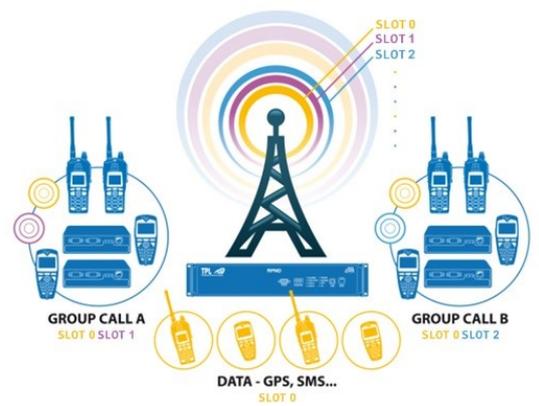
Digital TDMA Technology combined with Analogue Technology

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

Bluetooth 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.



TDMA eDMR 3 Slots



TECHNICAL FEATURES

Services	
<p>Call types :</p> <ul style="list-style-type: none"> - Open channel calls - Individual and privacy calls - Group calls (static and dynamic) - Emergency calls - Include calls - PSTN/ISDN incoming and outgoing calls <p>Others:</p> <ul style="list-style-type: none"> - Priority and pre-emptive calls - Online upgradeable software 	<p>Data :</p> <ul style="list-style-type: none"> - Status code transmission - SMS (Short data messages) - 9,6 Kbps (raw) data transmission rate <p>Simplex Mode :</p> <ul style="list-style-type: none"> - Open channel voice calls - Individual calls <p>Options :</p> <ul style="list-style-type: none"> - Internal GPS
Other Features	MCE Keypad Loudspeaker/Microphone with Bluetooth
<ul style="list-style-type: none"> - Aluminium chassis - VSWR protection with detected value display - Power supply protected against inverted polarity, transients an overvoltages (above 17V) - External connections : 1 DB44 and 1 USB <p>Main chassis dimensions and weight :</p> <ul style="list-style-type: none"> - Width : 180 mm - Height : 38 mm - Depth : 177 mm - Weight : 1,5 Kg 	<p>The Bluetooth 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.</p> <p>Powered by a rechargeable polymer lithium battery rechargeable when mounted on its support, the MCE provides 8 hours of operating time.</p>
Technical Radio Specification	
<p>Generals</p> <ul style="list-style-type: none"> - Frequency band 30-50MHz, 68-88 MHz,146-174MHz - Channel number > 200 - Operating mode Simplex, semi-duplex, duplex - Channel spacing 12,5 - 20 - 25 kHz - RF power 25 W - Power supply 10,8 to 15,5 V - Audio power 10 W / 8 Ohms - Raw data rate 9,6 Kbps - Operating temperature -10°C to +70°C - Dust and rain-proof IP54 <p>Transmitter</p> <ul style="list-style-type: none"> - 4 programmable RF levels 5 / 10 / 15 / 25 W - Frequency stability ± 5ppm - Analogue residual noise < -50 dB - Transmitting consumption < 5 A 	<p>Receiver</p> <ul style="list-style-type: none"> - Sensitivity for : Analogue -115 dBm @20dB SINAD Digital < -117 dBm for BER* 1% - Intermodulation protection > 70 dB - Dynamic RSSI 70 dB - Crystal filter selectivity > 70 dB - Consumption in standby mode < 500 mA <p>Complies with standards :</p> <ul style="list-style-type: none"> - ETS 300 086 - 300 113 - ETSI 300-279 - EN 55022-55024 - RED Directive
Modulation Types	Other Models
<ul style="list-style-type: none"> - Digital TDMA - 4FSK - Analog phase modulation (11KOG3E) <ul style="list-style-type: none"> - Analog selective calls (CTCSS, etc..) - Digital selective calls 	<ul style="list-style-type: none"> - DM3G 50W - eBase desktop station