

# Professional Series ATEX Portable Radios

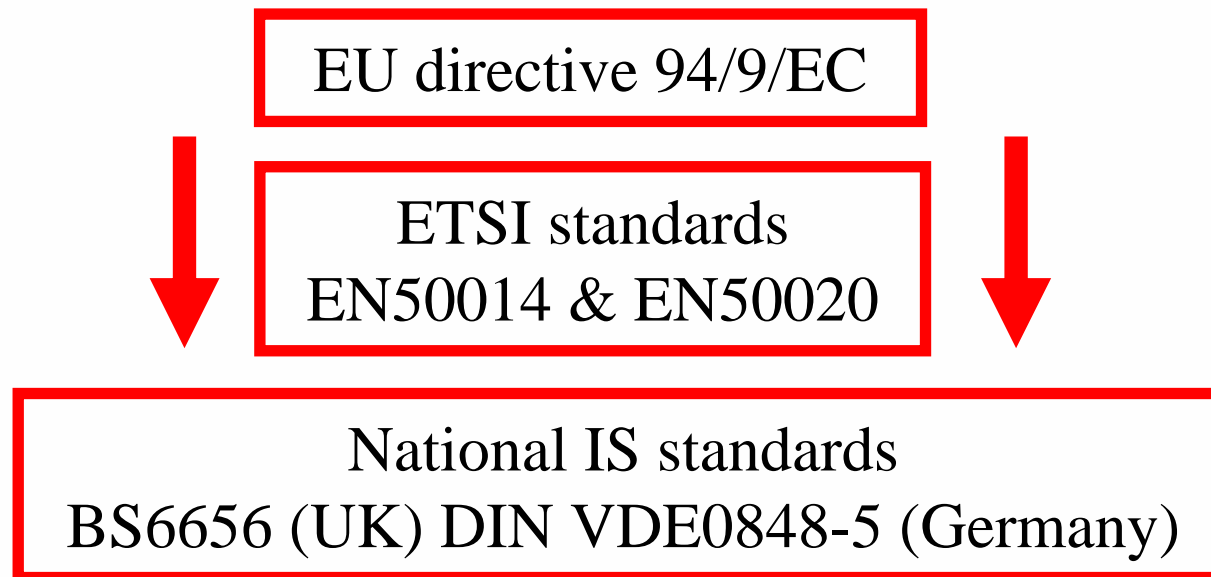


*The Choice for Professionals  
in Hazardous Environments*



# ATEX Intrinsic Safety Directive Overview

- ATEX – “ATmospheres EXplosibles”
- Mandatory in all EU member states and EFTA countries
- Replaced existing Intrinsic Safety directives in EU & EFTA



# Professional Series ATEX Objectives

- Defend and grow our leadership in the Intrinsic Safety (IS) market
- Refresh the Motorola IS portfolio
  - **Update to the Professional Series platform**
- Increase competitiveness in IS market
  - **Provide higher classification gas protection**
  - **Provide dust protection – unique to Motorola**
  - **Mandown functionality via plug-in option board**



# Benefits of Professional Series

- Trusted and proven platform
  - Over 4.5 million sales globally
- Common CPS saves time
- Common MMI (man machine interface) between ATEX & non-ATEX radios
- Proven quality
  - Full MIL spec
  - IP54 sealing
  - Motorola Accelerated Life Test which simulates 5 years hard use

**GP Platform is the standard bearer**


# Where is the difference?

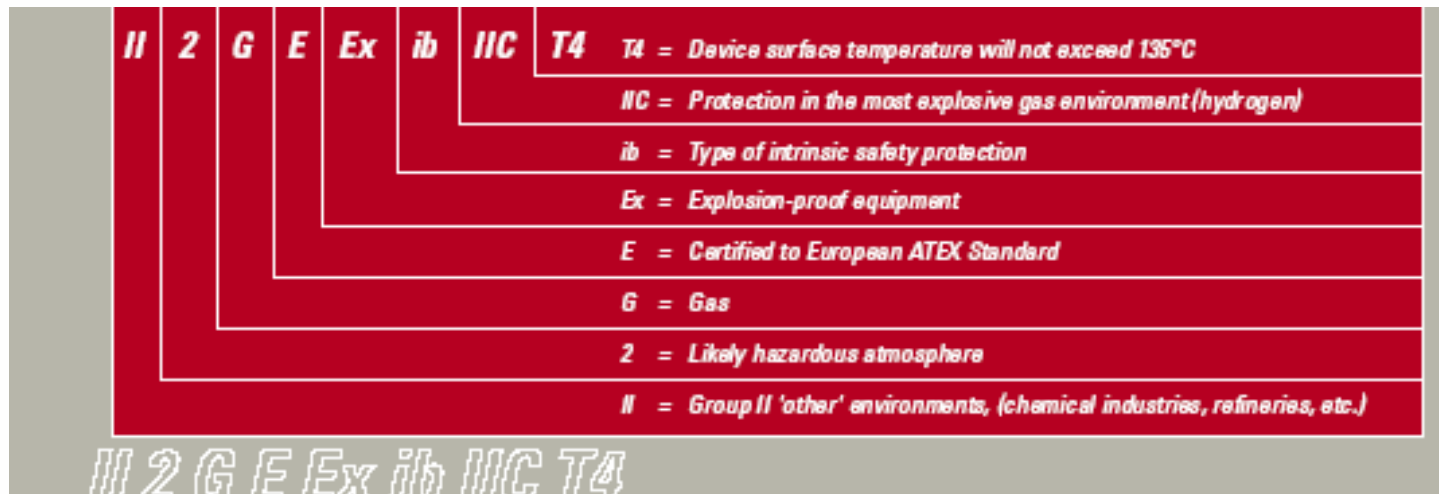
	<i>GP900/1200 &amp; MTS2000</i>	<i>Professional Series</i>
Protection Class	II 2 G EEx ib IIB T4	II 2G EEx ib IIC T4 II 3 D T1300C IP54
User interface	Non/Full keypad version Emergency button	Non/Full keypad version Dot matrix display Programmable buttons Emergency button
Channels	2,16	16, 255
Bands	VHF 136-174MHz UHF 403-470MHz	VHF 136-174MHz UHF 403-470MHz
Signalling	PL, 5 tone, MPT1327, Smartzone	PL, 5 tone, MPT1327/1343, SmartZone Mandown option board available
Other	NiCd	Standard Lilon battery delivering 16hrs* talktime Comprehensive range of core accesories Smaller and lighter form factor More built in features e.g. lone worker and whisper

\* 5:5:90 Duty cycle time



# Professional Series ATEX Gas Protection


- Higher protection classification than GP900, GP1200 and MTS2000 ATEX models
- Explanation of  II 2 G E Ex ib IIC T4



Note: Gas Zone 1 - “area in which under normal operation a potentially explosive atmosphere as a mixture of air and flammable gases, vapours or mists can occasionally form”

*Definition in accordance with 1999/92/EC Directive (ATEX 137)*

# Professional Series ATEX Dust Protection

- Unique Motorola capability – no other vendor claims ATEX dust protection
- Explanation of  II 3 D T130°C IP54

<b>II 3D</b>	<b>T130°C</b>	<b>IP54</b>	<i>IP54 = Protection against dust deposits and jet water</i>
			<i>T130°C = Maximum temperature of device surface</i>
			<i>II 3D = For use in Dust Zone 3 environments (occasional hazardous atmosphere)</i>

*II 3D T130°C IP54*

Note: Gas Zone 1 - “area in which under normal operation a potentially explosive atmosphere in the form of a cloud of inflammable air-borne dust is not normally present although may occur for just a short period”

*Definition in accordance with 1999/92/EC Directive (ATEX 137)*

# Professional Series ATEX Portfolio

Feature	GP340 Ex	GP380 Ex	GP580 Ex	GP680 Ex
Channels	16	255	System dependent	System dependent
Signalling	PL/5-Tone	PL/5-Tone	SmartZone	MPT1327/1343
Menu Languages	–	7	1	9
Programmable buttons	3	3	3	3
Keypad	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Contact List	–	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Speed Dials	–	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Backlit 14 character display	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Option Board Capable	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Lone Worker Function	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Make Telephone calls*	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Receive Telephone calls*	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Status Messaging	–	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Dynamic Regrouping	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

\*Requires additional interface

VHF (136-174 MHz) &  
UHF1 (403-470 MHz)

**UHF1 Launching from Q2 2005**



Ian Bayly – Product Marketing





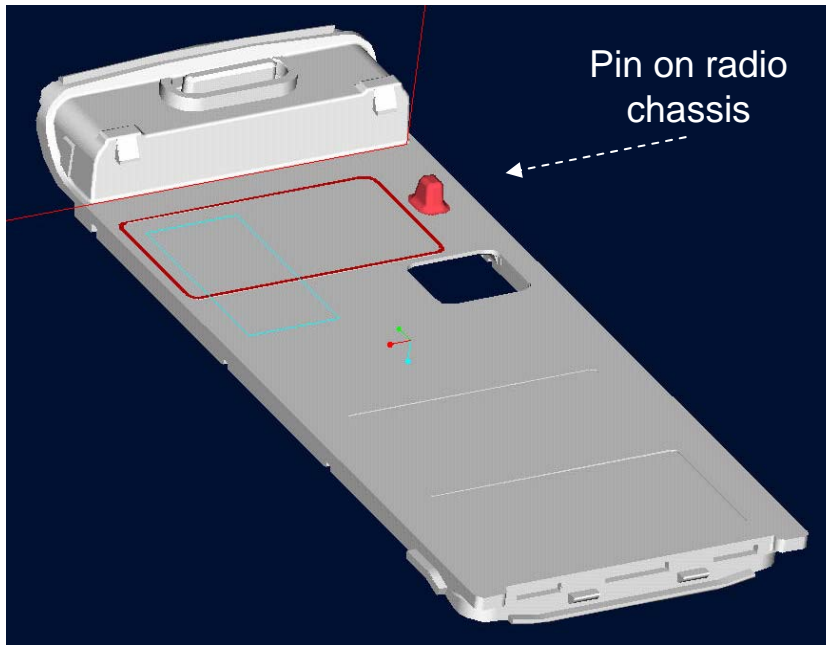


# Professional Series ATEX Energy Solution

- ATEX-approved LiION battery as standard
- Li-Ion delivers greater operational efficiency
  - No 'memory effects' from incomplete charge & discharge cycles
  - No need for battery maintenance
  - Lower self discharge rates during storage
  - Longer duty cycle time for varying shift patterns
    - 10/10/ 80 duty cycle - 12 hrs
    - 5/15/ 80 duty cycle - 14 hrs
    - 5/5/ 90 duty cycle - 16 hrs

# Professional Series ATEX Energy Solution

- Unique housing mechanics ensures only ATEX battery fits ATEX radio
  - Avoids mistakenly invalidating the radio by using a non ATEX battery





# Professional Series ATEX Accessories

- Radio must be used in leather carry-case
  - **Soft leather case supplied 'in box' with radio**
- Heavy-duty leather carry-case also available
- 12-pin adapter enables re-use of existing ATEX accessories
  - **PTT headset, Contact-Com, Lightweight headset, Ear mic, Ear piece.**
- Direct-connect accessories
  - **Contact-Com, PTT headset, Ear mic**
- ATEX-approved Remote Speaker Mic



# Professional Series ATEX Accessories

## **Carry Solutions**

Soft Leather Case for GP340 Ex GMLN1113

Soft Leather Case for GP380 Ex, GP580 Ex and GP680 Ex GMLN1112

Heavy Duty Leather Case for GP340 Ex GMLN1111

Heavy Duty Leather Case for GP380 Ex, GP580 Ex and GP680 Ex GMLN1110

## **ATEX Audio Direct Connections Accessories**

Noise Cancelling Remote Speaker Microphone GMMN1111

3.5 mm Earpiece (plugs into Remote Speaker Microphone GMMN1111) ELN4648

Bone Inductive Ear Microphone GMMN1108

Bone Inductive Contact Com GMLN1109

Ambient Sound Reception Headset with PTT GMLN1114

Dual PTT Light Weight Headset GMLN1117

## **ATEX Audio Accessories (requiring 12-Pin Hirose Connector Adaptor)**

Ambient Sound Reception Headset with PTT EDN7702

Bone Inductive Contact Com ELN4638

Dual PTT Light Weight Headset ELN4640

Bone Inductive Ear Microphone GMMN1109

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# Professional Series ATEX Accessories

## **ATEX Energy Solutions**

High Capacity Li Ion Battery NNTN5510

Chargers and Vehicle Adapters (ATEX Exempt)

VHF Vehicle Adapter EN1006

UHF Vehicle Adapter EN1007

115V Single Unit Charger (US Plug) MDHTN3000

230V Single Unit Charger (Euro Plug) MDHTN3001

230V Single Unit Charger (UK Plug) MDHTN3002

115V Multi Unit Charger (US Plug) MDHTN3003

230V Multi Unit Charger (Euro Plug) MDHTN3004

230V Multi Unit Charger (UK Plug) MDHTN3005

Single Unit Charger Pocket MDHTN9000

Travel Charger MDRLN4883

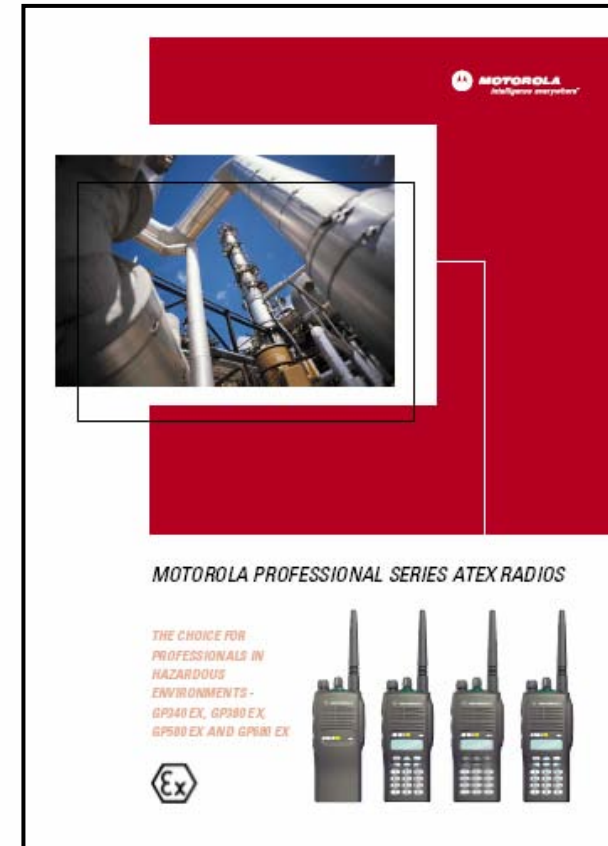
# Professional Series ATEX Option Board

- Offers additional capability compared to previous IS radios
- Subset of PROIS interface for Man-Down applications
- ATEX-approved option boards are being developed by third parties

# Marketing Communications

- Professional Radio ATEX pre launch brochure available in:
  - Danish, English, French, German, Italian, Norwegian, Polish, Russian.
- Marketing Presentation
- Press releases

**Available from MOL;  
'Sales Literature' within 'Marketing  
and Sales information'**



# Professional Series ATEX Key Messages

- Start talking to customers about upgrading their Intrinsic safety portfolio
  - **ATEX on the trusted Professional Series platform**
- Start developing new market opportunities with
  - **Higher gas protection than our existing ATEX portfolio**
  - **Unique dust protection**
  - **Man-Down option board capability**
- Comprehensive signalling options including 5 Tone, MPT and SmartZone
- ATEX-approved accessories available at launch
  - **Buy new or reuse existing accessories with 12 pin adaptor**



# For more immediate customer requirements

- Contact your sales manager for special packages to refurbish and maintain customers existing portfolio
  - **Special pricing is available on service and repair at the European Radio Support Centre**
  - **Special pricing on new batteries and accessories**

**The choice for Professionals in hazardous environments**