

Danimex Communication

An award-winning distributor of radio communication solutions and equipment throughout the world.

MotoTRBO Products

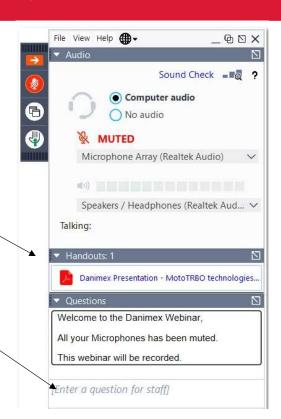


Danimex Academy 2020



Webinar Information

- You have all been muted.
- Possible downloads are here
- You can ask a question in the field for Q&A
- This webinar is being recorded for evaluation and also for later streaming





Your presenter today

• Johnni Bundgaard

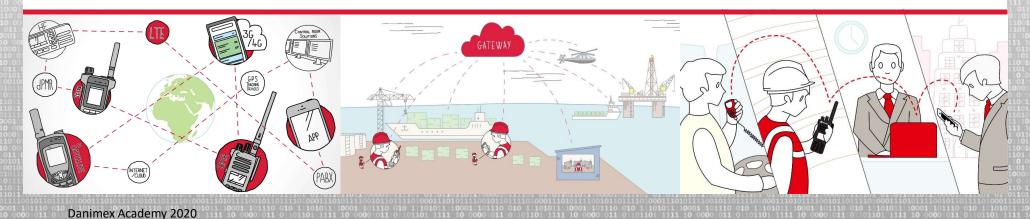
• jbu@danimex.com





About Danimex

- Danimex has over 30 years' experience within the communication industry.
- We specialize in two-way radio solutions, supporting our partners with everything they need to build a complete ready-to-use communication system.
- Our vision is a world that empowers people to communicate without limits.





MOTOROLA SOLUTIONS EXTENSIVE PORTFOLIO







DMR: STANDARDS BASED, FUTURE READY SOLUTIONS



GLOBALLY RECOGNIZED ETSI DIGITAL MOBILE RADIO (DMR) STANDARD

- Widely backed by industry leading radio manufacturers
- Most widely deployed digital two-way radio technology for professional users globally
- Open standard assures long-term viability
 - Tier I: low power, license-free 446MHz band
 - Tier II: licensed conventional high-power communications
 - Tier III: trunking operation



ETSI DMR STANDARD:

TR 102 398 V1.3.1 (2013-01)

TS 102 361-1 V2.5.1 (2017-10)

TS 102 361-2 V2.4.1 (2017-10) TS 102 361-3 V1.3.1 (2017-10)

TS 102 361-3 V1.3.1 (2017-10)

General System Design

Part 1: DMR Air Interface (AI) protocol

Part 2: DMR voice and generic services

Part 4: DMR trunking protocol

Part 4: DMR trunking protocol



INTRODUCING MOTOTRBO



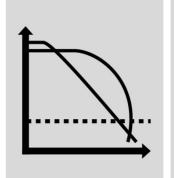
- A comprehensive digital two-way radio solution for professional and commercial communications
- Supports voice, data, text, GNSS, telemetry and apps
- Instantaneous, private and secure communications for the whole organization
- Built on the ETSI DMR standard
- Supports analogue and digital modes of operation





INTRODUCING MOTOTRBO















RANGE

AUDIO

CAPACITY

TALK-TIME

FEATURES

APPS

Intelligible speech over a larger area

Crisp and clear, even in fringe coverage areas Twice the calling capacity of analogue radio in the same RF channel

Up to 40% longer battery life than analogue radio

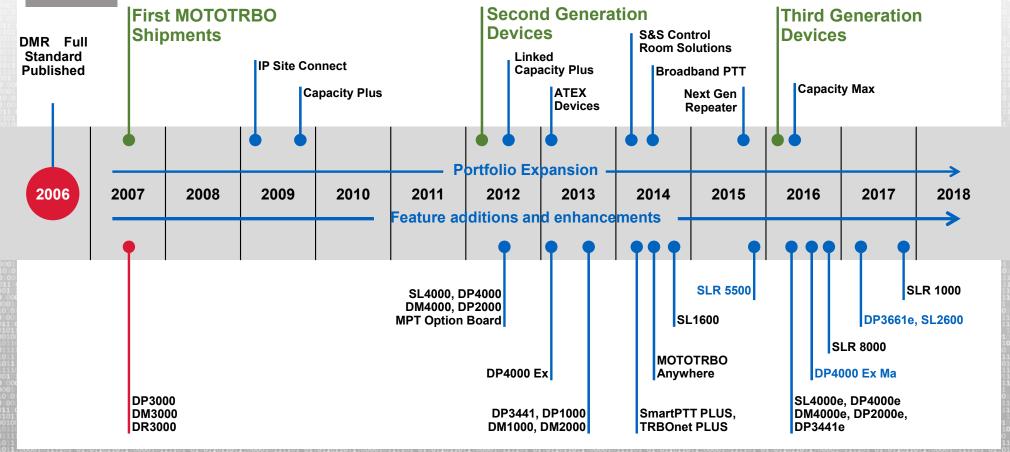
Increased opportunity for innovation

Integration with workplace applications



MOTOTRBO EVOLUTION







THE MOTOTRBO PORTFOLIO



S	SYSTEMS			SUBSCRIBER RADIOS			ACCESSORIES				
CAPACITY MAX			АТЕХ			AUDIO			ENERGY		
CAPA						CARRY			ANTENNAS		
CAPACITY PLUS	((1)) ((1))					APPLICATIONS			SERVICES		
CAPAC	T.		HIGH TIER	444		VOICE	LOCATION	SERVICES	PLAN		
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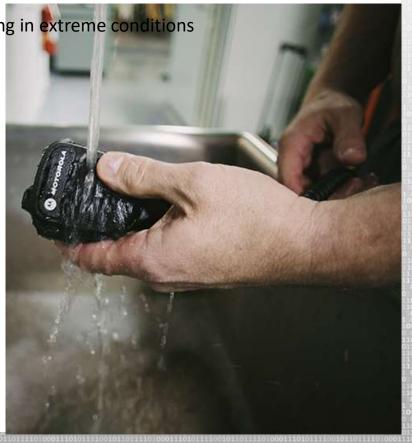






- MOTOTRBO radios and accessories are designed to keep operating in extreme conditions
- Every design must pass Motorola Accelerated Lifetime Testing (ALT)
 - · Simulates 5 years of hard use
 - Anticipates 15 year design life
- · Radios are designed to withstand
 - Drops: Multiple 122 cm drops on all sides onto concrete
 - Low temperatures: Operation down to -20

 C
 - Thermal shocks: Multiple cycles from -57°C to +80°C
 - Impacts: Multiple 115 g objects dropped from 1m
 - Water: Jets of water from all directions for 30 mins
 - Dust: 28 hours of fine blown dust
 - Cable strains: Multiple 1 minute, 18 kg pulls on accessory cables
 - Electric shocks: Up to 15 kV discharges
- Tightly sealed against dust and moisture





MOTOTRBO DEVICES PORTFOLIO







MOTOTRBO DP1400



RUGGED AND SIMPLE FOR THE EVERYDAY USER WHO NEEDS TO STAY CONNECTED

- Simple voice-only portable radio
- Analogue only or dual analogue/digital models available
- Tough, rugged, dependable
- · Easy migration path from analogue radio
- High-efficiency features
- Compatible with MOTOTRBO feature-set











SLIM AND PORTABLE FOR THE CUSTOMER SERVICE USER WHO WANTS INTUITIVE TECHNOLOGY

- Slim, lightweight voice-only radio
- Elegant ergonomics for easy use
- Rugged and reliable
- Advanced technology for high performance
- "Active View" display
- Award-winning design



YOU'RE SHARPER, CONNECTED









SPECIFICATIONS

- Dimensions:
- 126 X 55 X 22 mm
- 169g (VHF) 166g (UHF)
- Bands
- VHF (136-174 MHz)
- UHF (403-470 MHz)
- Transmitter Power
- 1 or 2W (Analogue)
- 1 or 3W (Digital)
- Capacity:
- 99 Channels
- Battery Life (analogue/digital)
- 11.8 / 14.0 hours
- Dust and water rating: IP54

- · Automatic Gain Control
- Trill Enhancement
- Emergency Alarm
- · Lone Worker
- · Pre-programmed Texting
- Basic Privacy
- Voice Announcement
- · Dual Capacity Direct Mode
- 1 Programmable Button scrolls up to 7 Features











AN INNOVATIVE WAY TO COMMUNICATE IMPORTANT RADIO INFORMATION

CRISP AND CLEAR

- LED matrix: No glare or reflections
- Displays important information in large characters
- · Longer messages scroll across screen

DURABLE

- LEDs are protected by radio casing
- Display is unaffected by scratches and dust

ENERGY EFFICIENT

· Display shuts off when not in use to conserve battery life



MOTOTRBO DM1000 SERIES



RUGGED AND SIMPLE FOR THE EVERYDAY USER WHO NEEDS TO STAY CONNECTED

- Simple voice-only mobile radios
- Tough, rugged, dependable
- Efficiency features
- Compatible with MOTOTRBO feature-set
- Numeric or alphanumeric display



DM1600



DM1400

YOU'RE SIMPLY MORE EFFICIENT







IP SITE CONNECT

CAPACITY MAX







SPECIFICATIONS

- Dimensions:
- 44 x 169 x 134 mm, 1.3kg
- Bands
- VHF (136-174 MHz)
- UHF (403-470 MHz)
- Transmitter Power
- 1-25 W or 25-45 W (VHF)
- 1-25 W or 25-40 W (UHF)
- · Capacity:
- 16 Channels (DM1400)
- 160 Channels (DM1600)
- Audio output:
- 4W (internal speaker)
- 7.5 W (external 8 Ω speaker)
- 13 W (external, 4 Ω speaker)
- · Dust and water rating: IP54

- Automatic Gain Control
- Trill Enhancement
- Emergency Alarm
- Lone Worker
- · Pre-programmed Texting
- Basic Privacy
- Voice Announcement
- · Dual Capacity Direct Mode
- 2 Programmable Buttons (DM1400)
- 4 Programmable Buttons (DM1600)





DIRECT MODE

MOTOTRBO DP2000e SERIES

CAPACITY PLUS

CAPACITY MAX

IP SITE CONNECT



A PERFECT BALANCE FOR THE BUSY WORKER WHO NEEDS EFFECTIVE COMMUNICATIONS

- Next-generation, affordable digital system radio
- Rugged and compact
- Plain and display/limited keypad models
- Optional TIA4950 HazLoc certification



YOU'RE MORE PRODUCTIVE, CONNECTED



DP2000e SERIES Details



SPECIFICATIONS

- Dimensions:
- 122 x 56 x 36mm
- 265 g (DP2400e), 282 g (DP2600e)
- Bands
- VHF (136-174 MHz)
- UHF (403-527 MHz)
- 300MHz (DP2400e only) (300-360, 350-400 MHz)
- Transmitter Power
- 1 or 4W (UHF, 300MHz)
- 1 or 5W (VHF)
- Capacity:
- 16 Channels (DP2400e)
- 128 Channels (DP2600e)
- · Battery Life (analogue/digital)-high cap battery
- Up to 21 / 28.5 hours (VHF)
- Up to 21 / 27.5 hours (UHF, 300MHz)
- Dust and water rating: IP67

- Automatic Gain Control
- Trill Enhancement
- Emergency Alarm
- Lone Worker
- · Pre-programmed Texting
- Basic Privacy
- Voice Announcement
- · Dual Capacity Direct Mode
- 2 Programmable Buttons (DP2400e)
- 4 Programmable Buttons (DP2600e)



- IMPRES™ Audio Compatible
- SINC+ (optional)
- IMPRES Energy Compatible
- · Intelligent Audio
- Extended Texting (up to 280 characters)
- Digital telephone Patch (optional)
- Transmit Interrupt (optional)
- Enhanced Privacy (optional)
- Over-The-Air Programming (RF)







SLIM AND PORTABLE PERFECTLY SUITED FOR BUSINESS INSTANT COMMUNICATION, PROFESSIONAL STYLE

- Slim, lightweight stylish radio
- Elegant ergonomics for easy use
- Rugged and reliable
- Advanced technology for high performance
- Virtual 4 button keypad and display
- Integrated Bluetooth® and Wi-Fi®





YOU'RE SHARPER, CONNECTED



SL2600 Details



SPECIFICATIONS

- Dimensions:
- 126 x 55 x 23mm
- 190 g
- Bands
- VHF (136-174 MHz)
- UHF (403-480 MHz)
- Transmitter Power
- 1 or 2W (Analogue)
- 1 or 3W (Digital)
- Capacity:
- 256 Channels
- Battery Life (analogue/digital)-high cap battery
- Up to 11 / 13.5 hours
- Dust and water rating: IP54

- Automatic Gain Control
- Trill Enhancement
- Emergency Alarm
- Lone Worker
- · Pre-programmed Texting
- Basic Privacy
- Voice Announcement
- · Dual Capacity Direct Mode
- 1 Programmable Button



- SINC+ (optional)
- · Intelligent Audio
- Extended Texting (up to 280 characters)
- · Covert Mode
- Digital telephone Patch (optional)
- Transmit Interrupt (optional)
- Enhanced Privacy (optional)
- Over-The-Air Programming (RF/Wi-Fi)
- Indoor Location Tracking (optional)
- · Bluetooth 4.0 Audio and Data



MOTOTRBO DM2600



A PERFECT BALANCE FOR THE BUSY WORKER WHO NEEDS EFFECTIVE COMMUNICATIONS

- Mobile companion to DP2000 Series
- Affordable digital system radio
- Rugged and compact
- Available in VHF and UHF bands



DIRECT MODE CONVENTIONAL IP SITE CONNECT CAPACITY PLUS CAPACITY MAX

YOU'RE MORE PRODUCTIVE, CONNECTED



DM2600 DETAILS



SPECIFICATIONS

- Dimensions:
- 44 x 169 x 134 mm, 1.3 kg
- Bands
- VHF (136-174 MHz)
- UHF (403-470 MHz)
- Transmitter Power
- 1-25 W or 25-45 W (VHF)
- 1-25 W or 25-40 W (UHF)
- · Capacity:
- 256 Channels
- Audio output:
- 4W (internal speaker)
- 7.5 W (external 8 Ω speaker)
- 13 W (external, 4 Ω speaker)
- Dust and water rating: IP54

- Automatic Gain Control
- Trill Enhancement
- Emergency Alarm
- Lone Worker
- · Pre-programmed Texting
- Basic Privacy
- Voice Announcement
- Dual Capacity Direct Mode
- 4 Programmable Buttons

- SINC+ (optional)
- · Intelligent Audio
- Extended Texting (up to 280 characters)
- Digital telephone Patch (optional)
- Transmit Interrupt (optional)
- Enhanced Privacy (optional)
- Over-The-Air Programming (RF)
- Telemetry Support (4 I/O Pins, 3 Buttons)





MOTOTRBO DP3000e SERIES



COMPACT AND RUGGED THE MOBILE PROFESSIONAL WHO NEEDS EFFECTIVE COMMUNICATION

- Next-generation, high-performance compact portable
- Supports voice, data, text and apps
- Compatible with all MOTOTRBO system types
- Integrated Wi-Fi[®], Bluetooth[®] 4.0 and GNSS
- Plain and colour display/limited keypad models
- IMPRES™ audio and energy compatible
- Full suite of accessories
- Optional TIA4950 HazLoc certification



YOU'RE COMPLETELY CONNECTED











CAPACITY MAX



DP3000e SERIES DETAILS



SPECIFICATIONS

- Dimensions with battery:
- 100 x 55 x 30 mm, 254 g (DP3441e)
- 100 x 55 x 36 mm, 290 g (DP3661e)
- Bands:
- VHF (136-174 MHz)
- UHF (403-512 MHz)
- Transmitter Power:
- 1 or 5 W (VHF)
- 1 or 4 W (UHF)
- Capacity:
- 32 Channels (DP3441e)
- 1000 Channels (DP3661e)
- Battery Life (digital/analogue)
- 27.5 / 20.5 hours (Low Voltage 3000 mAh battery)

- · Automatic Gain Control
- Trill Enhancement
- Emergency Alarm
- Lone Worker
- · Pre-programmed Texting
- Basic Privacy
- Voice Announcement
- · Dual Capacity Direct Mode
- 2 Programmable Buttons (DP3441e)
- 4 Programmable Buttons (DP3661e)

- IMPRES™ Audio Compatible
- SINC+ (optional)
- · IMPRES Energy Compatible
- Intelligent Audio
- Extended Texting (up to 280 characters)
- Digital telephone Patch (optional)
- Transmit Interrupt (optional)
- Enhanced Privacy (optional)
- · AES256 Encryption (optional)
- Over-The-Air Programming (RF/Wi-Fi)
- Integrated GPS/GLONASS
- · Integrated Wi-Fi
- Bluetooth 4.0 Audio and Data
- Dedicated Orange Emergency Button
- Option Board Compatible
- Indoor Location Tracking (optional)
- · Integrated Accelerometer for Mandown





MOTOTRBO DP4000e SERIES



TOTAL CONNECTIVITY

FOR THE SKILLED PROFESSIONAL WHO REFUSES TO COMPROMISE

- Next-generation, high-performance portable radio
- Supports voice, data, text and apps
- Compatible with all MOTOTRBO system types
- Integrated Wi-Fi[®], Bluetooth[®] 4.0 and GNSS
- Plain, limited keypad and full keypad models
- IMPRES™ audio and energy
- Full suite of accessories
- Optional TIA4950 HazLoc certification



YOU'RE COMPLETELY CONNECTED

DP440*e DP460*e











CAPACITY MAX



DP4000e SERIES DETAILS



SPECIFICATIONS

- · Dimensions with battery:
- 130 x 55 x 34 mm, 295 g (DP440*e)
- 130 x 55 x 36 mm, 330 g (DP460*e/DP480*e)
- Bands:
- VHF (136-174 MHz)
- UHF (403-527 MHz)
- 300 (DP4401e, DP4801e only) (300-360, 350-400 MHz)
- Transmitter Power:
- 1 or 4W (UHF, 300MHz)
- 1 or 5 W (VHF)
- Capacity:
- 32 Channels (DP440*e)
- 1000 Channels (DP460*e/DP480*e)
- Battery Life (digital/analogue high cap battery):
- 28.0 / 21.5 hours (UHF, 300MHz)
- 29.0 / 21.5 hours (VHF)
- Waterproof to IP68, rugged to MIL-STD 810

- · Automatic Gain Control
- Trill Enhancement
- · Emergency Alarm
- Lone Worker
- Pre-programmed Texting
- Freeform Texting (DP480*e)
- Basic Privacy
- Voice Announcement
- · Dual Capacity Direct Mode
- 3 Programmable Buttons (DP440*e)
- 5 Programmable Buttons (DP460*e/DP480*e)
- Dedicated Orange Emergency Button
- Vibrate Alert (optional)

- IMPRES™ Audio Compatible
- SINC+ (optional)
- · IMPRES Energy Compatible
- Intelligent Audio
- Extended Texting (up to 280 characters)
- Digital telephone Patch (optional)
- Transmit Interrupt (optional)
- Enhanced Privacy (optional)
- AES256 Encryption (optional)
- Over-The-Air Programming (RF/Wi-Fi)
- Integrated GPS/GLONASS (optional)
- Integrated Wi-Fi (optional)
- Bluetooth 4.0 Audio and Data (optional)
- Option Board Compatible
- Indoor Location Tracking (optional)
- Integrated Accelerometer for Mandown
- Telemetry Support (3 I/O Pins, 3 Buttons)









SLEEK AND SMART FOR THE BUSINESS LEADER WHO NEEDS COMPLETE CONTROL

- Next-generation slim portable radio
- Supports voice, data, text and apps
- Digital signalling only
- Compatible with all MOTOTRBO system types
- Integrated Wi-Fi and Bluetooth 4.0
- Colour screen and full keypad
- · Model available with built in option board
- · Full suite of accessories











SPECIFICATIONS

- Dimensions with slim battery:
- 121 x 55 x 17 mm, 154 g
- Bands:
- UHF (403-470 MHz)
- · Transmitter Power:
- 1, 2 or 3 W (UHF)
- Capacity:
- 1000 Channels
- Battery Life:
- 14.3 hours (2200 mAh battery)
- Dust and water rating: IP54

- Automatic Gain Control
- Trill Enhancement
- Emergency Alarm
- Lone Worker
- · Pre-programmed Texting
- Freeform Texting
- Basic Privacy
- Voice Announcement
- · Dual Capacity Direct Mode
- 2 Programmable Buttons
- Dedicated Orange Emergency Button
- Vibrate Alert
- Covert Mode

- SINC+ (optional)
- Intelligent Audio
- Extended Texting (up to 280 characters)
- · Digital telephone Patch
- Transmit Interrupt
- Enhanced Privacy
- AES256 Encryption (optional)
- Over-The-Air Programming (RF/Wi-Fi)
- Integrated Wi-Fi
- Bluetooth 4.0 Audio and Data (optional)
- Indoor Location Tracking (optional)
- Integrated Accelerometer for Mandown
- Telemetry Support (3 Buttons)





MOTOTRBO ATEX RADIOS



FOR CUSTOMERS REQUIRING DEVICES FOR USE IN POTENTIALLY EXPLOSIVE ENVIRONMENTS

- ATEX Certification:
 - Gas: Class II 2G Ex ib IIC T4 Gb
 - Dust: Class II 2D Ex ib IIIC T130 °C Db
 - Mining:
 - I M2 Ex ib I Mb (DP4000 Ex)
 - I M1 Ex ia I Ma (DP4000 Ex Ma)
- IEC Ex Certification:
 - · Gas: Ex ib IIC T4 Gb
 - Dust: Ex ib IIIC T130°C Db
 - Mining:
 - Ex ib I Mb (DP4000 Ex)
 - Ex ia I Ma (DP4000 Ex Ma)
- Radios are colour-coded to enhance recognition
- Supporting ATEX/IEC Ex certified accessories available





YOU'RE SMARTER, CONNECTED







SPECIFICATIONS

- · Dimensions with battery:
- 138 x 57 x 38 mm, 456 g (DP4401 Ex / Ma)
- 138 x 57 x 40 mm, 482 g (DP4801 Ex / Ma)
- · Bands:
- VHF (136-174 MHz)
- UHF (403-470 MHz)
- Transmitter Power:
- 1W (VHF, UHF)
- Capacity:
- 32 Channels (DP4401 Ex / Ma)
- 1000 Channels (DP4801 Ex / Ma)
- Battery Life (digital/analogue high cap battery):
- 19.0 / 16.0 hours (VHF, UHF)
- Waterproof to IP67

- Dedicated Orange Emergency Button
- 3 Programmable Buttons (DP4401 Ex / DP4401 Ex Ma)
- 5 Programmable Buttons
 (DP4801 Ex / DP4801 Ex Ma)
- Automatic Gain Control
- Trill Enhancement
- Emergency Alarm
- · Lone Worker
- · Pre-programmed Texting
- Freeform Texting (DP4801 Ex / Ma)
- Basic Privacy
- Voice Announcement
- Dual Capacity Direct Mode

- Integrated GPS (DP4000 Ex)
- Option Board Compatible (DP4801 Ex / Ma)
- IMPRES™ Audio Compatible
- SINC+ (optional)
- IMPRES Energy Compatible
- Intelligent Audio
- Extended Texting (up to 280 characters)
- Digital telephone Patch
- Transmit Interrupt
- Enhanced Privacy
- AES256 Encryption (optional)
- Over-The-Air Programming (RF)
- Integrated Accelerometer for Mandown
- Telemetry Support (3 I/O Pins, 3 Buttons)









TOTAL CONNECTIVITY

FOR THE SKILLED PROFESSIONAL WHO REFUSES TO COMPROMISE

- Mobile companion to DP4000e Series
- Next-generation mobile radio
- Enhanced voice, data, text and apps
- Compatible with all system types
- Integrated Wi-Fi[®], Bluetooth[®] 4.0 and GPS/GLONASS
- Numeric or full colour display
- · Full suite of accessories





YOU'RE COMPLETELY CONNECTED

DM440*e







SPECIFICATIONS

- Dimensions:
- 53 x 175 x 206 mm, 1.8 kg
- Bands:
- VHF (136-174 MHz)
- UHF (403-470, 450-527 MHz)
- 300 (DM4401e, DM4601e) (300-360, 350-400 MHz)
- · Transmitter Power:
- 1-25 W or 25-45 W (VHF)
- 1-25 W or 25-40 W (300 MHz, UHF)
- Capacity:
- 99 Channels (DM440*e)
- 1000 Channels (DM460*e)
- Dust and water rating: IP54

- Automatic Gain Control
- Trill Enhancement
- Emergency Alarm
- Lone Worker
- · Pre-programmed Texting
- Freeform Texting (with keypad mic)
- Basic Privacy
- Voice Announcement
- · Dual Capacity Direct Mode
- 4 Programmable Buttons

- IMPRES™ Audio Compatible
- SINC+ (optional)
- · Intelligent Audio
- Extended Texting (up to 280 characters)
- Digital telephone Patch (optional)
- Transmit Interrupt (optional)
- · Enhanced Privacy (optional)
- AES256 Encryption (optional)
- Over-The-Air Programming (RF/Wi-Fi)
- Integrated GPS/GLONASS (optional)
- Integrated Wi-Fi (optional)
- Bluetooth 4.0 Audio and Data (optional)
- · Option Board Compatible
- Indoor Location Tracking (optional)
- Telemetry Support (5 I/O Pins, 3 Buttons)



HANDHELD CONTROL HEAD



TOTAL CONNECTIVITY

FOR THE SKILLED PROFESSIONAL WHO REFUSES TO COMPROMISE

- Option for DM4000 / DM4000e Series mobile radios
- Handheld user interface for mobile radio
 - Full keyboard and colour screen
 - Similar user experience to DP4800e
- 1.8m coiled cord can stretch to 3m
 - Additional 4.9m extension cable available
- Mobile radio can be installed remotely
- Users can communicate while they move around within their vehicles
 - For example: ambulance staff, delivery truck drivers





YOU'RE COMPLETELY CONNECTED



SLR5500

- 50W output, VHF and UHF, up to 100% duty cycle
- High receiver sensitivity
- High reliability
- Compatible with all system types







- High quality RF design
- Latest technology
- Optimized cooling
- ALT tested
- 2-year warranty
- Slim and compact
- Low power consumption
- Excellent serviceability
- Thoughtful touches





- 3A Internal battery charger
- 1A Aux power output
- External ref sync input
- Rack / desktop mounts
- 4W audio input
- GPIO ports







Danimex WHEN YOU NEED TO TALK

SLR5500

- Modular architecture with replaceable FRUs
- Internal self-test capability
- FRUs are pre-calibrated
- Licenses associated with chassis ID
- Front panel USB interface





Provision for expansion



Danimex SLR5500 Duplexer dock



Mounting options

The SLR 5500 Duplexer dock has three options for

placement: wall, desk or rack.

The Duplexer Dock has been developed to integrate

the duplex filter directly into the same casing as the

SLR 5500 repeater, making mounting solutions easier

for wall, table and rack.

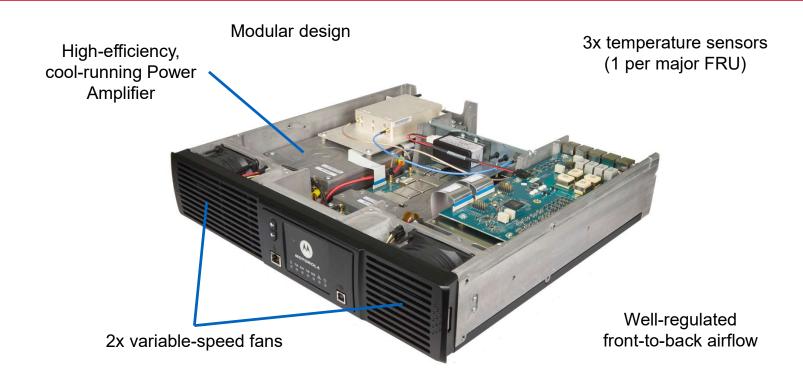
The perfect complimentary product for all infrastructure uses, in a smart and rigid frame.



- Architectural design of the SLR 5000 repeater but with the higher specifications and performance of the MTR3000.
- Flexible configurable options.
- Drop-in replacement for MTR3000 with improvements in many areas.
- Future proof with increased processing capabilities and memory.



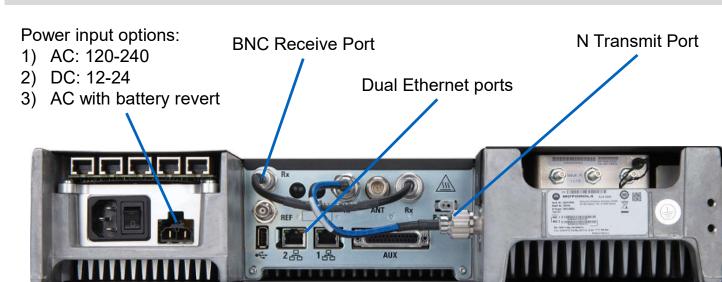






System Compatibility:

- Analog Conventional, Analog Voting (requires Wireline Card)
- Digital (MOTOTRBO): DMR Tier 2 Conventional Single Site, IP Site Connect, Capacity Plus Single-Site and Multi-Site, Connect Plus Trunking, Capacity Max
- LTR / Passport / MPT1327 Trunking







- Indoor installation
- Outdoor (wall or towermount) installation
- 10W
- DC operated (multiple powersources available)
- Options for
 - Extended Range Direct Mode Relay
 - Build in duplex filter





- Options for
 - Extended Range Direct Mode Relay

Source: MOTOROLASOLUTIONS HOWTO SLR 1000 | PART 3: ANTENNA SWITCH ACCESSORY INSTALLATION





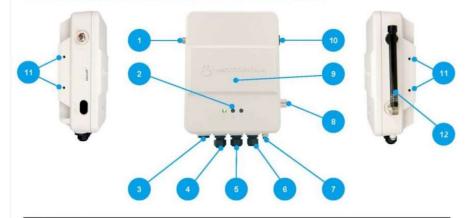
• Build in duplex filter



Source: MOTOROLASOLUTIONS HOWTO SLR 1000 | PART 2: DUPLEXER ACCESSORY INSTALLATION



SLR 1000 LOW POWER REPEATER HIGHLIGHTS



- Receiver RF (Rx) input cable port
- 7 Bonding earth connection

2 Status LEDs

- B Transmitter RF (Tx) output cable port
- Type B USB socket programming interface
- 9 IP65 enclosure
- 4 RJ-45 Ethernet network connection
- 10 Pressure equalizer vent
- RJ-45 Aux/accessory connector: Rx Audio, Tx Audio, PTT, 1 PPS and GPIO
- 11 Screw holes for mounting brackets

6 DC power inlet

Optional antenna



ACCESSORIES





MOTOTRBO ACCESSORIES



AUDIO



Choose from earpieces, headsets, remote speaker microphones (RSMs), active noise cancellation earphones.

ENERGY



Keep your communications up and running for the whole shift, with IMPRES™ smart batteries and chargers

WIRELESS



A comprehensive portfolio of Bluetooth accessories to keep you connected without wires.

MOBILE



A wide range of accessories for vehicle-mounted radios, including keypad microphones, remote mount kits and handheld control heads.

CARRY



Keep your radio safe and conveniently to hand, with the Motorola Solutions range of cases, belt clips, belt loops and holsters.

ANTENNAS



Innovative, high technology antennas that give you great performance without getting in your way.



IMPRES AUDIO



Motorola-patented technology for enhanced audio performance

• Enhanced performance Remote Speaker Microphones (RSMs), surveillance earpieces, temple transducer headsets, specialist Ear Microphone Solutions and visor, fist or handset-style microphones for in-vehicle installation

Optimal audio accessory performance

- Loudness
- Clarity
- Intelligibility

Talk loud or whisper

- Balances different users' levels of loudness
- IMPRES automatically adjusts microphone gain to give consistent audio level at receiving radio

Talk close or further away

- Compensates for users who hold radio at different distances and angles
- IMPRES automatically adjusts microphone gain to give consistent audio level at receiving radio

Background Noise Suppression

- · IMPRES modifies microphone gain when user speaks, lowering the sensitivity and focusing on the spoken word
- · Suppresses background noise, resulting in clearer transmissions





IMPRES ENERGY



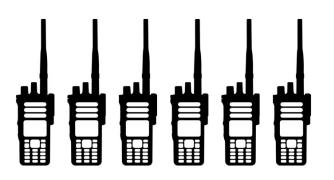
- Motorola-patented technology for enhanced battery lifecycle
 - Maximised runtime, improved lifetime
 - IMPRES radio, battery and charger communicate to optimise performance
 - Can increase life of IMPRES battery by up to 43%
- Smart batteries collect historical information on cell status, charge time and capacity
- Smart chargers read battery data and automatically schedule reconditioning cycles as necessary
- Desktop application interfaces to charger
 - Dashboard view of status of batteries
 - · Early prediction of failing batteries





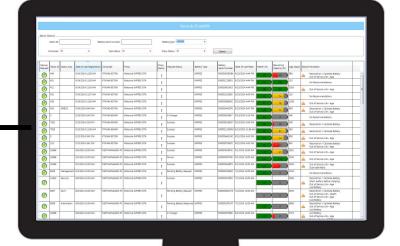
IMPRES OVER-THE-AIR BATTERY MGT







- Collects battery data automatically even while radios are in use
- Generates long-term battery performance history records
- Allows early prediction of battery end-of-life



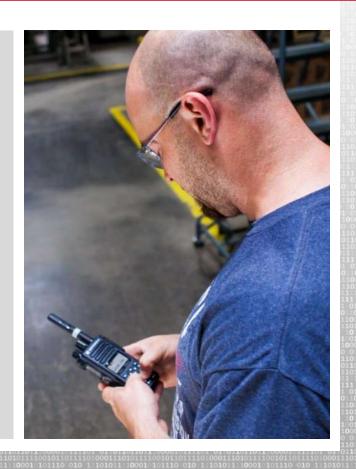




MOTOTRBO APPLICATIONS



- Taking you beyond simple voice communications, the MOTOTRBO Application Developer Programme (ADP) increases the value of your two-way radio system by giving you access to advanced functionality from industry innovators.
- Motorola has also partnered with premium application developers to create the Motorola Sold and Supported (MSS) programme: a range of applications that are uniquely integrated to your MOTOTRBO radio system.





MOTOTRBO ADP APPLICATIONS



COMMAND AND CONTROL



These applications work behind the scenes of your MOTOTRBO network to enhance the efficiency and responsiveness of your system.

EMAIL AND TEXT



Enhance productivity by connecting your radio network with your text and email system. Allow your staff to use advanced work order ticketing solutions, and streamline the flow of information between office and shop floor.

INTEROPERABILITY



Connect your MOTOTRBO radio system to other communication systems. From analogue two-way radio systems to SIP telephone networks, you can increase efficiency and enhance collaboration.

LOCATION



Track your vehicles and your staff for improved safety, security and accountability. These applications allow you to make the most of MOTOTRBO's GPS capabilities, and some even offer indoor location tracking capabilities.

PERSONNEL SAFETY



Increase the safety and accountability of your staff by deploying these applications. Features such as Man Down and Lone Worker can be linked to indoor and outdoor location services for maximum effectiveness.

SYSTEM MONITORING



To get the best from your MOTOTRBO system, you need to know how it's performing. These applications give you a dashboard of metrics and parameters, with detailed logs helping you plan future growth.

VOICE DISPATCH



Giving you centralized control of your workforce, these applications allow your dispatcher to coordinate your staff effectively. They also enhance business connectivity by allowing telephony interconnections and patching.

WORK TICKET MANAGEMENT



These applications enhance efficiency and accountability in the workplace using text-based issue management software. They can be integrated with your existing work-order management solution or operated independently.



MOTOROLA SOLD & SUPPORTED



- A range of applications from premium application development partners that add unique value to your MOTOTRBO radio system
- Offered for sale through Motorola Solutions
- Supported through the standard Motorola Solutions service process
- Uniquely integrated with MOTOTRBO
 - Apps have exclusive access to wireline voice interface
 - Developers have early access to software releases





SmartPTT PLUS



- Software-based Dispatch Console
- Compatible with all MOTOTRBO system types
- Direct wireline IP connection to system
 - No control stations required
 - Gracefully scalable
 - Access to all call types
- Reliable, redundant architecture
- Easily-customized user interface
- Optional functionality
 - GPS / Indoor Location-Tracking
 - Voice Recording
 - Telephone Interconnect
 - 4-Wire analogue Interconnect







TRBOnet PLUS



- Software-based Dispatch Console
- Compatible with all MOTOTRBO system types
- Direct wireline IP connection to system
 - · No control stations required
 - · Gracefully scalable
 - · Access to all call types
- Reliable, redundant architecture
- Easily-customized user interface
- Optional functionality
 - GPS / Indoor Location-Tracking
 - Voice Recording
 - Telephone Interconnect







MOTOTRBO SUMMARY



- A broad portfolio of products, systems, applications and services
- All the advantages of digital radio, with a graceful migration from analogue
- Compatible with WAVE Unified Communications
- Rugged, dependable devices
- Reliable availability
- Manageable cost of ownership
- Customisable solutions





MOTOTRBO SUMMARY

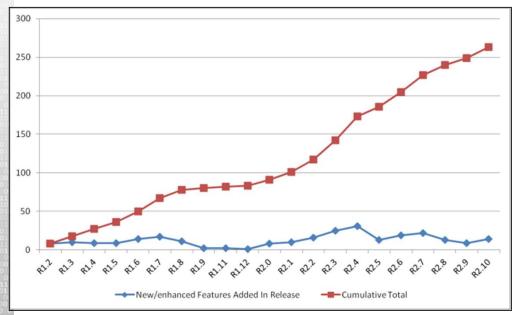
 A broad portfolio of products, systems, applications and services



Motorola					
	Technology name	Portable	Mobile	Repeater	
Tier III	CAP MAX	DP4xxxe	DM4xxxe	SLR5500	
		DP3xxxe		SLR8000	
		SL4xxxe		SL1000	
Tier II½	Capacity Plus Multisite				
		DP3/4xxxe,	DM4xxxe/	SLR5500,	
		DP/SL2xxxe,	DM2xxxe	SLR8000, SLR1000	
				SLR5500,	
	Capacity Plus single site			SLR8000, SLR1000	
		DP3/4xxxe,	DM4xxxe/		
	IP-Site-Connect /	DP/SL2xxxe,	DM2xxxe/	SLR5500,	
Tier II	conventinal	DP/SL1xxx	DM1xxx	SLR8000, SLR1000	



POSITIONING THE VALUE OF MOTOTRBO™ SOFTWARE



Software capabilities grow over time



A school principal at a rural school district uses transmit interrupt (R1.2) to break into the channel and report a missing student.



A logistics manager sends an updated address via a work order ticket (R2.3) and the text to speech (R2.4) feature reads it out loud and clear to the driver.



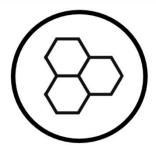
The dispatcher at a plant coordinates with the fork truck driver. The radio noise-cancellation (R2.5) cuts through the machine's noise.

Chart excludes adding new hardware models and Connect Plus features

- Each software release adds new features and enhances current performance
- Keeping your MOTOTRBO Software current reduces security vulnerabilities, fixes identified defects and enables new feature functionality
- Regular updates provide greater reliability, security, capabilities and performance to your users minimising unforeseen costs and service disruptions, extending the lifespan of your MOTOTRBO radios, mobiles and infrastructure.



THE VALUE OF MOTOTRBO™ SOFTWARE



SYSTEMS
COVERAGE, CAPACITY
AND CAPABILITY

*	Conventional	R1.0
	IP Site Connect	R1.4
٠	Capacity Plus (single site)	R1.5
٠	Dynamic Mixed Mode (DMM)	R1.6
٠	MPT1327 Analogue Trunking	R1.8/R2.3
	Capacity Plus (multi site)	R1.9/R2.0
٠	Dual Capacity Direct Mode	R2.1
	Over-the-Air Programming	R2.1
•	Capacity Plus (multi site) 15 sites	R1.11/R2.2
٠	Capacity Plus up to 24 ch/site	R2.3
٠	Digital Voting	R2.3
٠	OTA Battery Management	R2.5
	Wi-Fi Enablement	R2.5
	Capacity Max	R2.6
•	Capacity Max 250 sites	R2.7
٠	Extended Range Direct Mode	R2.7
٠	MOTOTRBO Link	R2.9



SECURITY
PRIVACY, SAFETY AND
PROTECTION

	Basic privacy	R1.2
	Enhanced Privacy	R1.4
	Transmit Interrupt	R1.6
٠	Radio Password	R1.7
	Repeater Authorisation	R1.7
٠	Restricted Access to System (RAS)	R1.11/R2.
	Enhanced Codeplug Password Protection	R2.3
	AES Privacy	R2.3
	CPS Read Write Password Protection	R2.3
	Auto Registration Service Support	R2.6
	Authenticated Radio Disable	R2.6
	Restricted Access To System as Standard	R2.7
	DDMS User Sign-In/Out Authentication	R2.7
	Option to use Fixed Privacy Key Decryption	R2.7
	Authenticated Remote Monitor	R2.7
	Certificate Based Wi-Fi Access	R2.9
	Cybersecurity Update	R2.10



AUDIO CLARITY, LOUDNESS AND INTELLIGIBILITY

	Configurable Digital AGC	R1.3
	Minimum Volume Offset	R1.7
	Intelligent Audio	R2.0
	Voice Announcement	R2.0
	Acoustic Feedback (AF) Suppressor	R2.2
	Microphone Distortion Control	R2.2
	User Selectable Audio Profile	R2.4
	Trill Enhancement	R2.4
	SINC+	R2.5
	AGC Enhancement	R2.5
	High volume clarity & wind noise mitigation	R2.5
	Acoustic Feedback Suppressor	R2.6
	Audio Enhancements	R2.6
	Received Audio Leveling	R2.7
*	Fixed Volume Alert Offset	R2.8



USABILITY SPEED, EASE AND FUNCTIONALITY

	Lookhovkrocoll	D1 2
	Last text recall	R1.2
*	Channel Free Audible Tone	R1.2
*	VOX	R1.4
	Lone Worker	R1.5
*	Text Message Draft Folder	R1.5
	Additional Emergency Systems	R1.6
	Configurable RSSI Threshold	R1.6
	Display Alias	R1.7
	Enhanced Search Capability for Contact List	R1.7
	Text Message Alert	R1.8
	RSSI Display Value	R1.9
	Predictive Text Input	R2.0
*	Home Channel Reminder	R2.4
	Text-to-Speech	R2.4
	Event & Distance Driven Location Updates	R2.4
	Switch Speaker	R2.4
	280 characters Text Messages	R2.5
*	Integrated Mandown	R2.5
•	Mute Mode (prog button or face down)	R2.7
	Dynamic Group Number Assignment	R2.10



Q&A

- Ofline Questions can be directed to your relevant sales person or to
 - Webinar@Danimex.com