



MOTOTRBO  
**ION**

# MOTOTRBO ION

CUSTOMER PRESENTATION

A yellow semi-truck is driving on a multi-level highway interchange. The truck is on the upper level, moving from left to right. The sky is clear and blue. The concrete structure of the interchange is prominent in the foreground and background.

## A LONG HISTORY

Professionals depend on **MOTOTRBO** to keep their businesses running with **critical communications** across teams, locations and networks.

A wide-angle, high-angle shot of a large stadium at night. The stadium is filled with a dense crowd of spectators. The field is brightly lit by several large floodlights, creating a strong contrast with the dark sky. The architecture of the stadium, including the roof structure and seating tiers, is visible. The overall atmosphere is that of a major sporting event.

## A CHANGING LANDSCAPE

Your business runs on **voice** and **data**.  
But if your device can only access one,  
you're not running at your best.

Our first business-ready communication device with **combined** voice and broadband data capabilities.



**MOTOTRBO**  
**ION**  
**ALWAYS **+**ON**



# ALWAYS **+**ON

SCANNER



SMART DEVICE



RADIO



VIDEO CONSOLE



VEHICLE-MOUNTED  
COMPUTER



# DESIGN FEATURES

+ ENHANCEMENTS  
+ FEATURES

SHORTER, FLEXIBLE, MORE COMFORTABLE ANTENNA

CHANNEL SELECTOR

STATUS LED

+ ENLARGED EMERGENCY BUTTON

+ HOLSTER CATCH FEATURE

+ 1.05" TOP LCD DISPLAY

VOLUME KNOB

FRONT MIC 1

RUGGEDISED 4" TOUCHSCREEN

+ SLIM, CORROSION-RESISTANT CONNECTOR

+ DEVICE LABELLING AREA

+ FRONT SPEAKER AND MICROPHONE

DISPLAY SLEEP/WAKE BUTTON



# DESIGN FEATURES

## + ENHANCEMENTS + FEATURES

+ DEDICATED  
PUSH-TO-TALK

+ 3-DOT PROGRAMMABLE  
FEATURE BUTTON

+ 1-DOT PROGRAMMABLE  
FEATURE BUTTON

+ 2-DOT PROGRAMMABLE  
FEATURE BUTTON

REAR MIC +

LED FLASH +

BATTERY LATCH +

IMPRES 2 SMART  
BATTERY TECHNOLOGY +

MULTI-SHIFT  
BATTERY +

CHARGING CONTACTS +

+ CAMERA

+ HOLSTER RAIL



# SPECIFICATIONS



## FREQUENCY BANDS

UHF (400 - 527 MHz) /  
Up to 1000 channels /  
Up to 250 zones

## RF OUTPUT POWER

4 W (high) / 1 W (low)

## MEMORY

4 GB RAM

## INTERNAL STORAGE

32 GB

## 4G LTE

Public carrier

## Wi-Fi

802.11a/b/g/n/ac;  
2.4 GHz, 5 GHz

## BLUETOOTH

5.0 + LE +BR/EDR

## GNSS

(GPS/GLONASS/BeiDou  
/Galileo) and AGPS

## HAZLOC

UL TIA4950 approved

## INGRESS PROTECTION

IP 68 (2 metres, 2 hours)

## SENSOR PLATFORM

Hall-effect sensor,  
ambient light sensor,  
accelerometer,  
barometer, gyroscope,  
e-compass



## TOP DISPLAY

1.05 in.

## DISPLAY

4 in., 480 x 800 px  
Colour display

## OPERATING SYSTEM

Android 10

ION



## CAMERA

Rear 13 MP





# KEY FEATURES

## APPS ARE **ON**

- Android platform
- Open app ecosystem
- Full multimedia capabilities
- Motorola technology ecosystem
- Intuitive touchscreen

## DEPENDABILITY IS **ON**

- Built for any environment
- Industry-leading audio
- Ultra-rugged touchscreen
- Customisable experience
- Long battery life
- Intrinsically safe (TIA4950)

## CONNECTIVITY IS **ON**

- Dedicated PTT device
- Seamless voice handover \* (DMR & 4G LTE PTT)
- Broadband data (4G LTE, Wi-Fi)
- Bluetooth

## UPTIME IS **ON**

- Fast setup and updates
- Seamless device management
- Managed and supported services

## SECURITY IS **ON**

- Device security
- Application security
- Data security

\* Available with software release 2.0



MOTOTRBO **ION**

 **APPS ARE**  
 **DEPENDABILITY IS**  
 **CONNECTIVITY IS**  
 **UPTIME IS**  
 **SECURITY IS**

**ION**



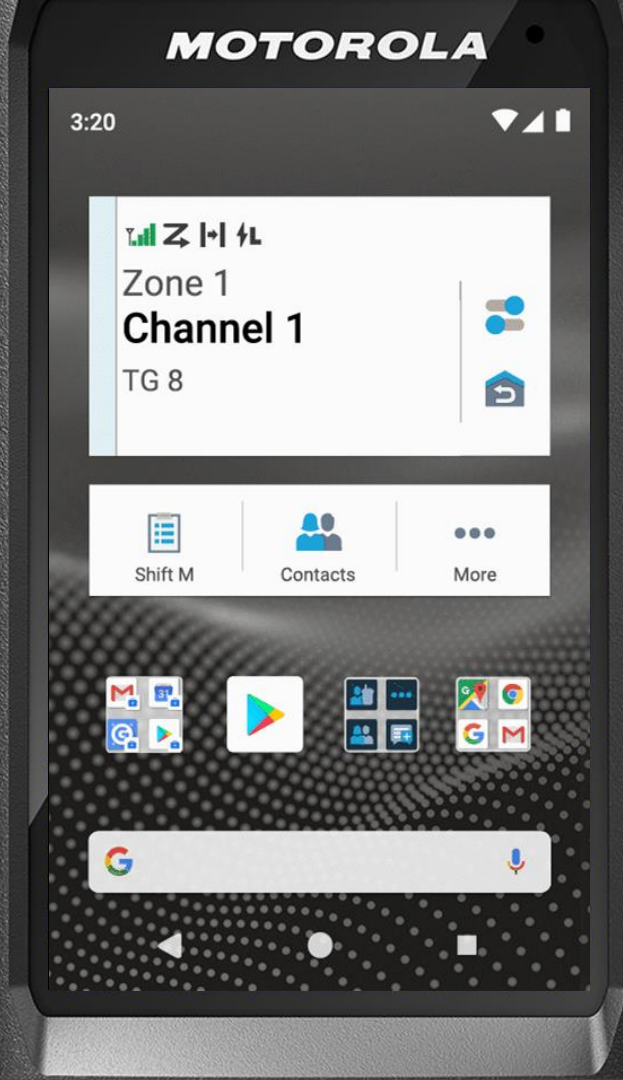
☐☐ APPS ARE

⊕ ON



# ANDROID PLATFORM

MOTOTRBO Ion leverages  
Android's **intuitive and  
trusted user interface.**



APPS ARE **ON**



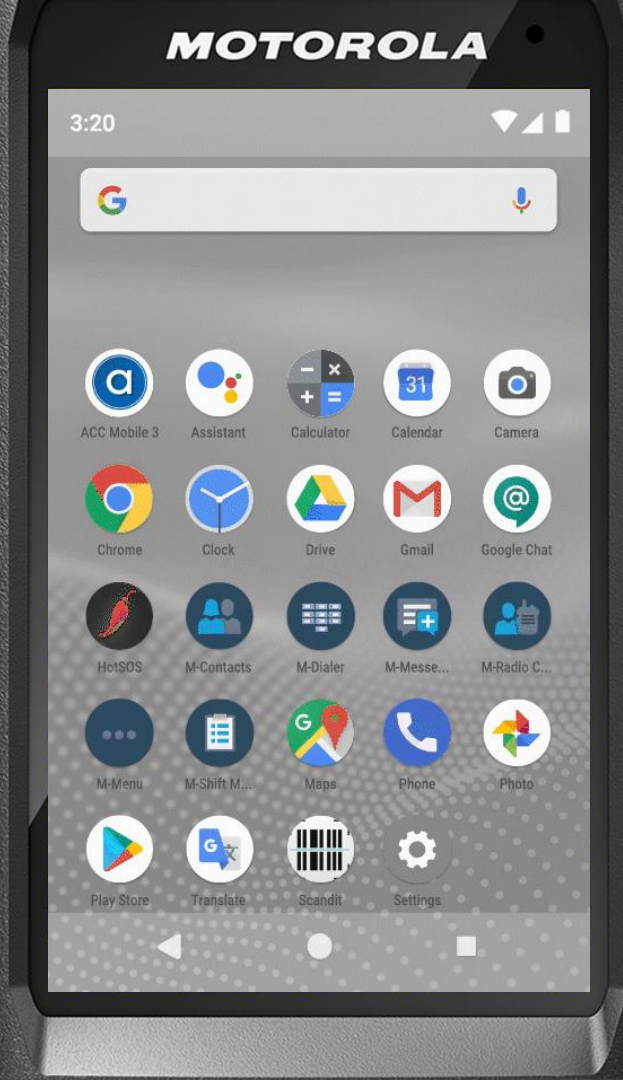
INTUITIVE  
INTERFACE

SEAMLESS  
ADOPTION



# OPEN APPLICATION ECOSYSTEM

With MOTOTRBO Ion, you can **use any app in the Google Play store.**



APPS ARE **ON**



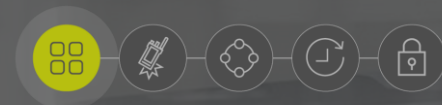
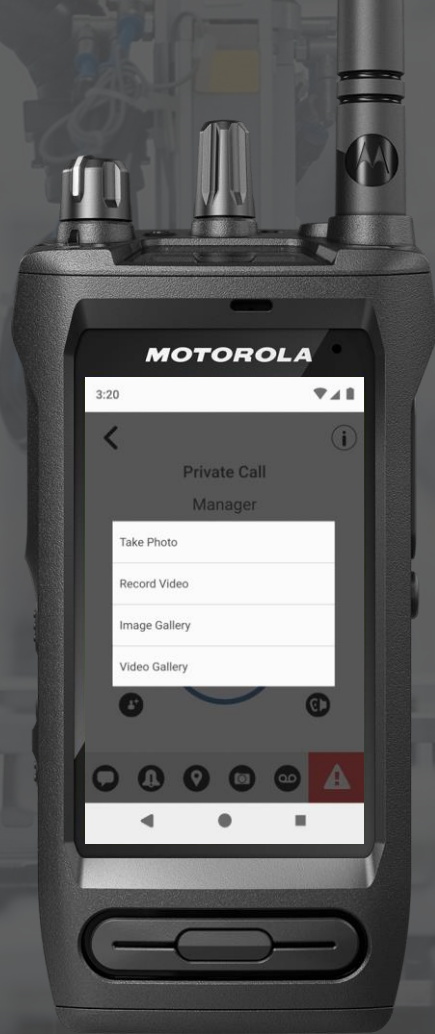
GOOGLE PLAY STORE

G-SUITE APPS



# FULL MULTIMEDIA CAPABILITIES

Send images and videos—and use video chat—with an integrated rear-facing camera.



APPS ARE **ON**



**REAR-FACING  
CAMERA**

**VIDEO STREAMING /  
CHAT**

**PHOTO / VIDEO  
CAPTURE, SEND, VIEW**



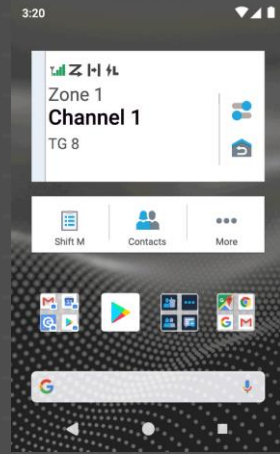
# MOTOROLA ECOSYSTEM

MOTOTRBO Ion is your entry point to **Motorola's full technology ecosystem.**



APPS ARE **ON**

## MSI TECHNOLOGY



AVIGILON SECURITY

## APP DEVELOPMENT PROGRAM

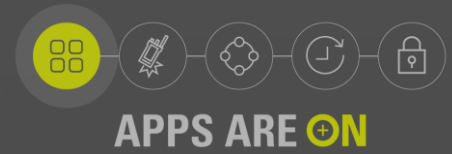
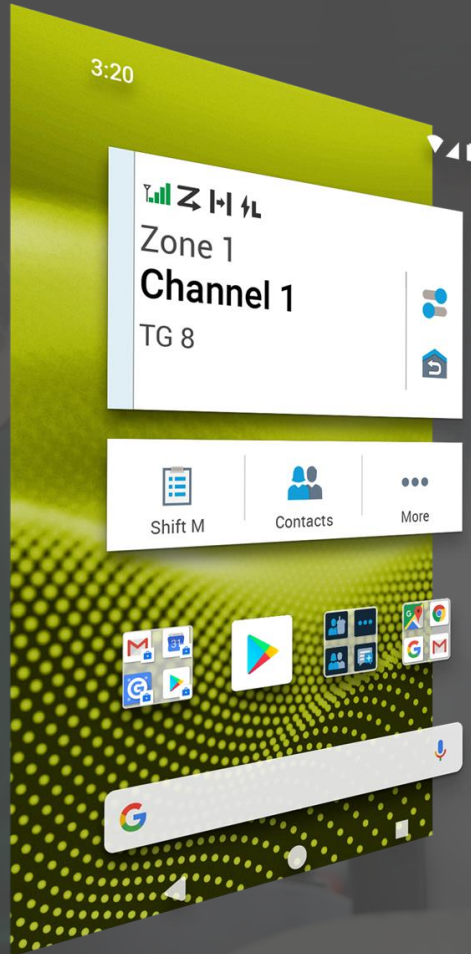


SCANDIT BARCODE SCANNING



# INTUITIVE TOUCH SCREEN INTERFACE

MOTOTRBO Ion's touchscreen turns on **a world of data and application capabilities.**



**INTUITIVE ICONS FOR SMOOTH UI**

**CRITICAL INFO AT A GLANCE**

**ACCESS TO ALL RADIO FEATURES ON THE TOUCH DEVICE**







DEPENDABILITY IS

**ON**



# BUILT FOR ANY ENVIRONMENT

Completely dust-tight and protected from immersion in water — **up to 2 metres for 2 hours.**



DEPENDABILITY IS **ON**



**DUST/WATER  
RESISTANT (IP68)**

**DROP RESISTANT**



# ULTRA-RUGGED TOUCHSCREEN

You can use MOTOTRBO Ion with confidence in **environments that most smartphones can't handle.**



DEPENDABILITY IS **ON**



MOTOROLA

3:20

Zone 1  
Channel 1  
TG 8

Shift M    Contacts    More



+

+

+

**GORILLA GLASS**

**STRUCTURAL SUPPORT**

**LIQUID-RESISTANT & GLOVE-OPERABLE**



# INDUSTRY-LEADING AUDIO



DEPENDABILITY IS **+**



**CRYSTAL CLARITY  
AND POWERFUL  
VOLUME**



**ADVANCED DUAL  
MIC NOISE  
SUPPRESSION**



**AUTOMATIC  
ACOUSTIC FEEDBACK  
SUPPRESSOR**



**WIDE BAND  
SPEAKERS AND  
MICROPHONES**



**AUTO-ADAPTIVE WIND  
NOISE SUPPRESSION**



**SENSITIVE DEVICE  
VOICE CONTROLS<sup>1</sup>**



**+ FRONT SPEAKER  
AND MIC**

**+ REAR MIC**

<sup>1</sup> US English only at launch



# LONG BATTERY LIFE

MOTOTRBO Ion's standard batteries last an entire shift and through extreme temperatures (-20°C to +60°C), **so you can keep your devices in the field for longer.**



DEPENDABILITY IS **ON**

**SMARTPHONES**  
<sup>1</sup>

**11-16**  
HRS

**MOTOTRBO  
DP4000e SERIES**  
<sup>2</sup>

**14**  
HRS

**MOTOTRBO ION**  
<sup>2</sup>

**17**  
HRS

<sup>1</sup> Third party testing, 2020

<sup>2</sup> Internal testing with standard capacity batteries, 2020



# CUSTOMISABLE EXPERIENCE

MOTOTRBO Ion can be adapted with accessories that are purpose-built to **make your fleet easier to use and even more capable, especially in loud environments.**



DEPENDABILITY IS **ON**



**+ CLEAR 2-WIRE  
EARPIECE**

Now supports  
extra loud setting.



**+ RM780  
WIRED RSM**

Clearer and louder  
audio, with volume and  
rocker switches, plus  
Wind/Water Shielding™



**+ WM500  
WIRELESS RSM**

Increased  
flexibility and  
added control.

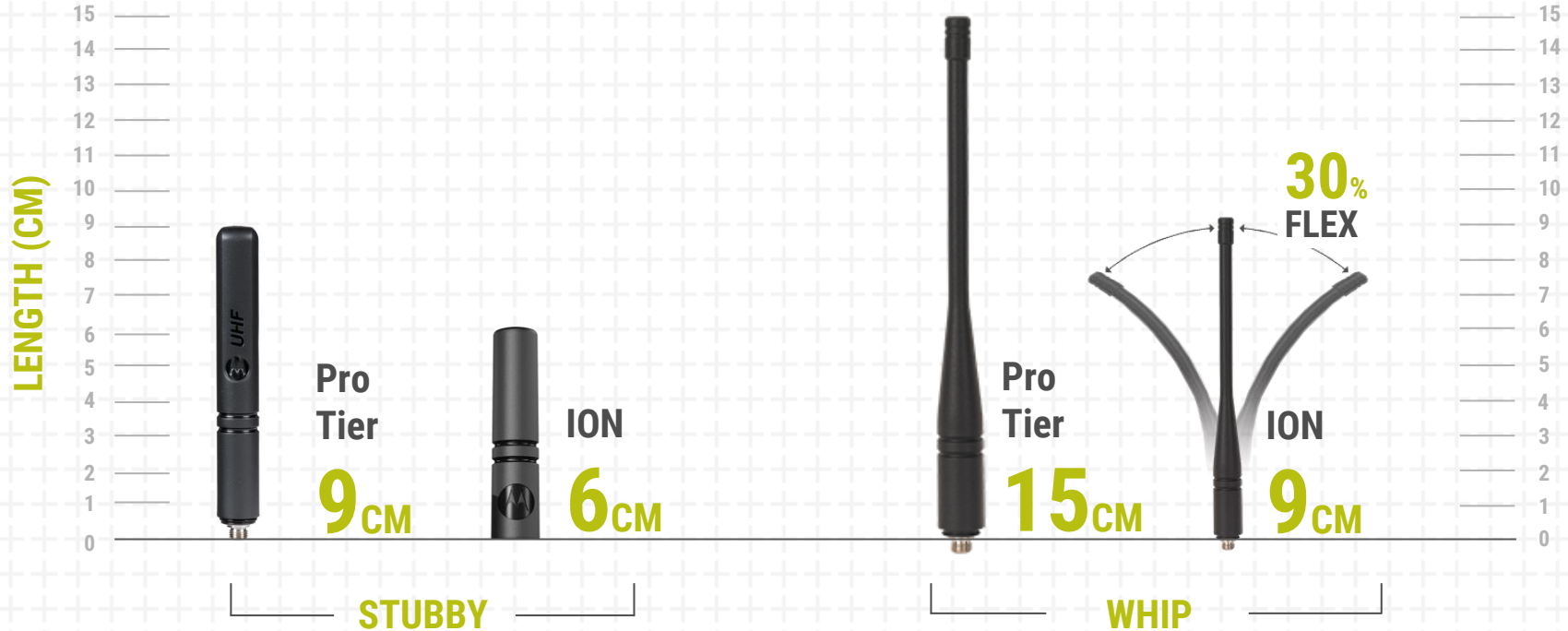


BLUETOOTH 5.0



# REDESIGNED ANTENNA

MOTOTRBO Ion's antenna is **shorter and more flexible** than other MOTOTRBO antennas.



# INTRINSICALLY SAFE

MOTOTRBO Ion is an intrinsically safe device, so you can use it in **hazardous environments\*** without the risk of ignition or fire.



**NO RISK OF  
IGNITION OR FIRE**

**THE ONLY  
INTRINSICALLY SAFE  
(TIA-4950)  
TOUCHSCREEN RADIO**



DEPENDABILITY IS **ON**

\*UL TIA-4950 certified







CONNECTIVITY IS

**ON**



# INSTANT COMMUNICATION



CONNECTIVITY IS **ON**

## Dedicated PTT device

Business-critical PTT functionality

Built on MSI LMR expertise



## Full network interoperability with WAVE PTX

Team PTT across different devices, networks, and locations

Communicate with devices you already have

Instantly connected to your team wherever they're located



# NETWORK CONNECTIVITY



CONNECTIVITY IS ON

## + BLUETOOTH

CONNECT ACCESSORIES AND DEVICES

## + LONG TERM EVOLUTION (3G/4G LTE)

BROADBAND DATA CAPABILITIES  
INSTANT PTT VOICE

## + DMR

FULLY INTEROPERABLE WITH YOUR EXISTING MOTOTRBO  
INSTANT PTT VOICE AND DATA

## + Wi-Fi

SPEEDY DATA AND VOICE COMMS  
ENHANCED PROGRAMMING, PROVISIONING, AND UPDATING



# MOTOTRBO COMPATIBILITY

Direct



Conventional



IP Site Connect



Capacity Plus

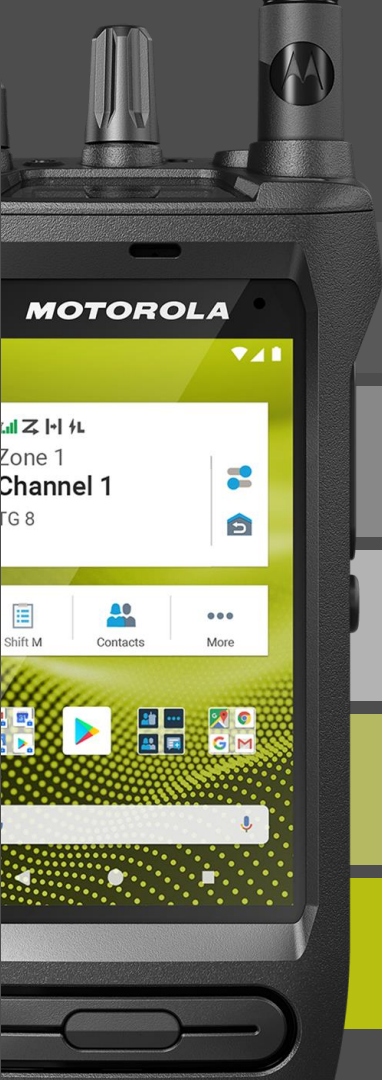


Capacity Max



MOTOTRBO Ion is **fully compatible with DMR Tier II and Tier III** as well as all MOTOTRBO systems.

MOTOTRBO Ion comes with **Capacity Max already enabled.**



# AUTO NETWORK SWITCH \*



CONNECTIVITY IS **ON**



**VOICE COMMUNICATIONS  
ACROSS NETWORKS**

**AUTOMATICALLY SWITCH  
TO BROADBAND WHEN  
RADIO SIGNAL FADES**

**AUTHENTICATION, STATUS,  
TALKGROUPS, AND  
ENCRYPTION PRESERVED**



\* Available with software release 2.0





UPTIME IS

ON



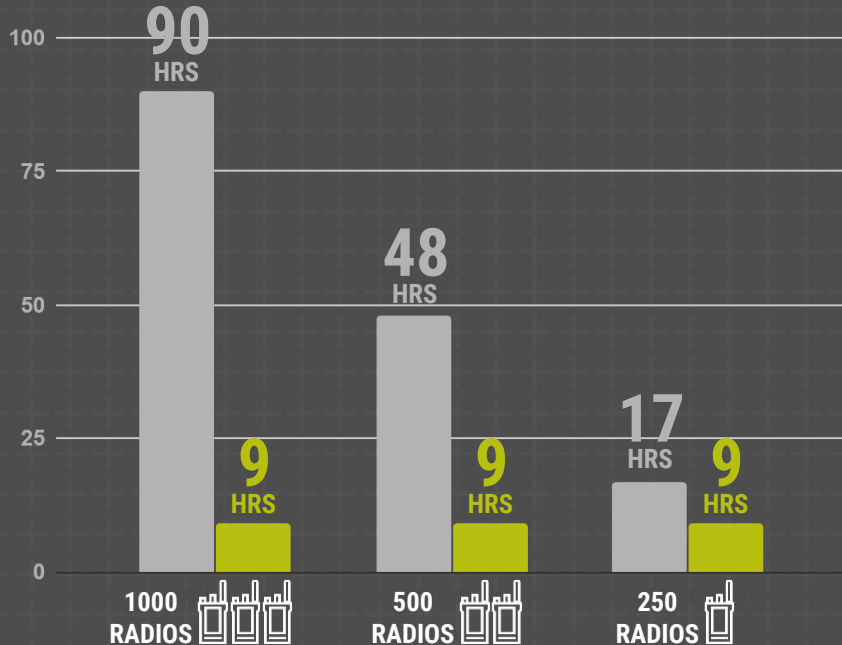
# FAST SETUP AND UPDATES



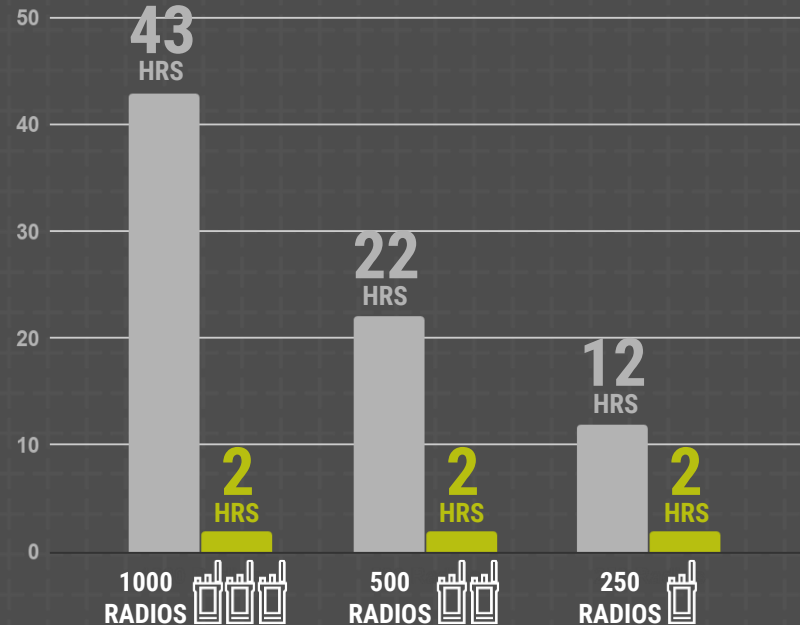
UPTIME IS **ON**

Smart device setup and remote programming **dramatically reduces the time and resources** needed to provision and update your MOTOTRBO Ion fleet.

## INITIAL PROVISIONING



## IN-FIELD UPDATES



# SEAMLESS DEVICE MANAGEMENT



- **RADIO PROVISIONING**
- **FIRMWARE / CODEPLUG UPDATES**
- **RADIO PERFORMANCE MONITORING**
- **RADIO TROUBLESHOOTING**

## MDM support

- Manage user profiles
- Android device enrollment
- Manage device permissions
- Software updates
- Device policy settings
- App install / upgrade



UPTIME IS ON





# MANAGED AND SUPPORT SERVICES

Our services help you resolve issues with minimal downtime so you can keep your devices in the field longer. Multiple service models let you optimise your technical resources by choosing the level of support that's right for you.

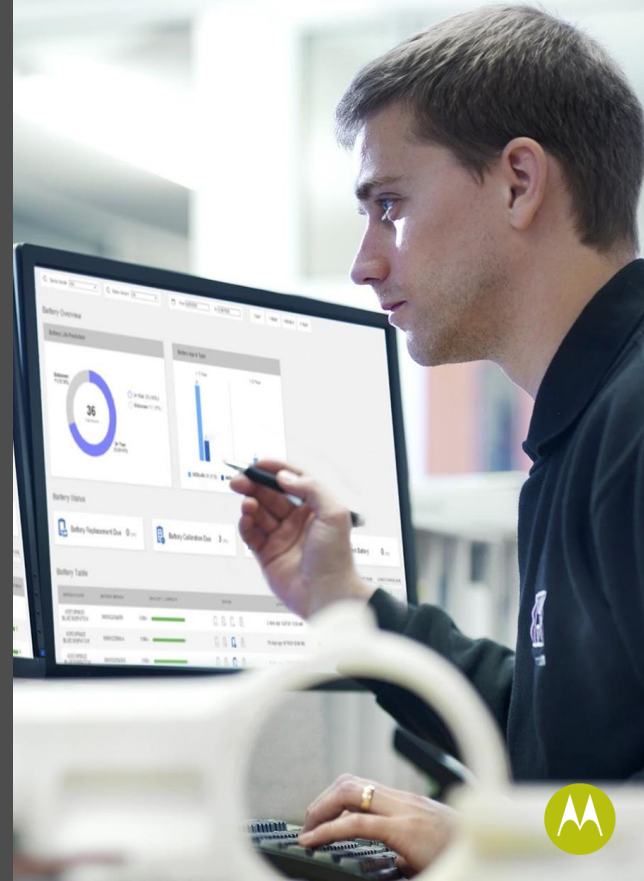
## MOTOTRBO ION

	Embedded Service	Service Upgrades
ACCIDENTAL DAMAGE*	Optional	Optional
EXTENDED HARDWARE REPAIR	Optional	Optional
RADIOCENTRAL (BATCH CONFIGURATION AND PROGRAMMING)**	Free 1yr	
PRODUCT WARRANTY (2YR)	<b>ENHANCED WARRANTY (5YR)</b>	<b>ESSENTIAL SERVICE (5YR)</b>
RADIOCENTRAL (SINGLE RADIO PROGRAMMING)		
TECHNICAL SUPPORT		
SOFTWARE UPDATES		
MYVIEW PORTAL		

\* Accidental Damage can be offered as an add-on service with Enhanced Warranty and Essential Service.  
 \*\* Batch programming is offered as a free trial for 1 year with Enhanced Warranty.  
 - Please contact a Motorola Solutions Representative for additional service package details.



UPTIME IS **ON**





SECURITY IS

ON



# MULTIPLE LAYERS OF SECURITY

MOTOTRBO Ion helps you stay safe from cyber threats.



SECURITY IS ON

- + DEVICE SECURITY
- + APPLICATION SECURITY
- + DATA SECURITY



# DEVICE SECURITY

MOTOTRBO Ion helps prevent hostile code from running on the device and unauthorised users from gaining access.



SECURITY IS ON

FIRMWARE  
AUTHENTICITY

INTEGRITY MONITORING  
AND THREAT PROTECTION

MULTI-FACTOR  
AUTHENTICATION

TRUSTED EXECUTION  
ENVIRONMENT



# APPLICATION SECURITY

MOTOTRBO Ion enables secure operation by helping to prevent malware, phishing and other malicious activity.



SECURITY IS ON

ANDROID ENTERPRISE  
RECOMMENDED (AER)

GOOGLE PLAY PROTECT

MDM PROTECTION AND  
CUSTOMISATION



# DATA SECURITY

MOTOTRBO Ion safeguards critical data, at rest and in transit.



SECURITY IS **ON**

DATA ENCRYPTED AT  
REST AND IN TRANSIT

PROTECTION ACROSS ALL  
CONNECTIVITY  
INTERFACES  
(LMR, WI-FI, 4G LTE)

SEPARATE USER PROFILES  
(WORK/PERSONAL)



# KEY FEATURES



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