



## ENTERPRISE VOICE OVER WLAN SMARTPHONES WITH PUSH-TO-TALK

# EWP2200/3200

## ENTERPRISE VOICE AND DATA SERVICES TO INCREASE PRODUCTIVITY

Motorola's Enterprise VoWLAN smartphones enable a true mobile office experience by delivering the communication services required to stay on top of business throughout the day. Easy to deploy, our Enterprise Voice solution easily integrates into existing IT infrastructure (including the wireless LAN and the PBX) as a non-intrusive overlay, creating a single common platform for the delivery of integrated voice and data services. This appliance-based offering provides workers with mobile access throughout the enterprise WLAN to the six key voice and data business services workers need to stay productive while on the move.

- **PBX telephony**  
Extend the features and functionality of a desk phone to a mobile device.
- **Push-to-talk services**  
Empower users with robust, instant communications — including the ability to call an individual or a group (with up to 255 definable groups).

- **Corporate email, calendar, contacts and other personal information management (PIM) tools**  
Keep your workers in touch and on top of their schedule, task list and more.
- **Text messaging**  
Service within the wireless LAN coverage area enables fast and efficient communication between workers — improving response times to customer demands and changing business conditions.
- **Internet/intranet access**  
Provides on-the-spot easy access to web-based applications and information as needed throughout the business day.
- **Line of business applications**  
Support for the latest industry standard mobile operating system, Windows Mobile® 6.5, simplifies mobile access to server-based business critical applications. The EWP3200 features an integrated camera for 1D/2D light-duty bar code scanning.

## FEATURES

### Enterprise-grade VoWLAN smartphones

Provides comprehensive business functionality in a compact consumer-style device built to withstand all-day every day enterprise use

### Semi-Rugged Construction

Cost-effectively meet the demanding needs of different types of workers

### Microsoft® operating system: Windows Mobile® 6.5

Standards-based, open, and extensible to enable robust multi-vendor business applications on-demand, right on your Enterprise VoWLAN smartphones

### Integrated camera

The EWP3200 enables 1D/2D light-duty barcode scanning

### 256MB RAM/512MB ROM

Provides memory space required to enable robust performance for the most processing intensive applications

## A SINGLE DEVICE FOR ALL COMMUNICATIONS

The EWP2200/3200 provides workers within the enterprise a single device to meet all their communication needs throughout the enterprise. The EWP2200/3200 semi-rugged VoWLAN smartphones are designed to endure a demanding environment, offering sealing against moisture and dust as well as a rigorous drop specification. The EWP3200 is also equipped with an integrated camera for 1D/2D light-duty bar code scanning, includes BioCote® antimicrobial product protection which inhibits the growth of mildew on the surface, and a keypad that can be wiped clean.

## WORLD-CLASS SERVICES AND SUPPORT

Motorola offers a complete suite of Enterprise Mobility Services to get and keep your Enterprise VoWLAN smartphones up and running at peak performance.

Motorola's Advanced Services incorporate an integrated lifecycle approach — from assessment and commissioning to integration and handset staging — into a single streamlined program. And seamless integration with Motorola's Customer Services gives you the support you need, including around-the-clock access to technical support resources and rights to download entitled software releases, to help ensure that all elements of your solution work at peak performance levels.

For more information about Motorola's Enterprise voice solutions and the VoWLAN smartphones, please visit us on the web at [www.motorolasolutions.com/enterprisevoice](http://www.motorolasolutions.com/enterprisevoice), or access our global directory at [www.motorolasolutions.com/enterprisemobility/contactus](http://www.motorolasolutions.com/enterprisemobility/contactus)

## BioCote® Antimicrobial Product Protection

The EWP3200 contains BioCote which inhibits growth of mold and mildew on the surface of the product

## IEEE 802.11a/b/g/n

Compatible with multiple vendors' WLANs

## Bluetooth support

Provides convenient wire-free connectivity to headsets and more

## TI OMAP™ 600 MHz processor

Delivers a superior combination of high performance and ultra-low power consumption

## Multiple voice modes: handset, headset and speakerphone

Allows users to choose the right mode for the moment

## High capacity battery

Provides the flexibility to ensure operation throughout the business day

## TEAM VOWLAN HANDSETS AT A GLANCE

	EWP2200	EWP3200
<b>Dimensions</b>	4.74 in. L x 2.13 in. W x .81 in. D; 120.5mm L x 54mm W x 20.6mm D	4.74 in. L x 2.13 in. W x .81 in. D; 120.5mm L x 54mm W x 20.6mm D
<b>Weight</b>	5.3 oz./150 g	5.4 oz./152 g
<b>Battery</b>	BK10/1750mAh	BK10/1750mAh
<b>Battery Life (talk/standby time)*</b>	9 hours/100 hours	8 hours /100 hours
<b>Integrated Camera</b>	—	Yes
<b>Water Intrusion Test (Environmental Sealing): IPX2</b>	Yes	Yes
<b>Drop MIL 810F 516.5, IV, 4 ft./1.2m drop</b>	16x	16x
<b>Humidity 50°C, 90-95% RH, 8 Hours</b>	Yes	Yes
<b>ESD (Electrostatic Discharge)</b>	Yes	Yes
<b>Wipeable Keypad</b>	Yes	Yes
<b>BioCote® Product Protection</b>	—	Yes
<b>Operating Temperature 14° to 122° F/-10° to 50° C</b>	Yes	Yes
<b>Storage Temperature -40° to 185° F/-40° to 85° C</b>	Yes	Yes
<b>Product Flammability Test</b>	Yes	Yes
<b>Dust Test: MIL810F 510.4, III - 140 mesh silica 5hr</b>	Yes	Yes
<b>Vibration Test: TIA/EIA 603 para. 3.3.4</b>	Yes	Yes
<b>Push-to-Talk Express 1.x Voice Client Included**</b>	Yes	Yes
<b>Network(s)</b>	Single Mode – VoWLAN	Single Mode - VoWLAN

\* Talk and Standby times vary based on shift and infrastructure profiles

\*\* Please visit [www.motorola.com/teamexpress](http://www.motorola.com/teamexpress) for further information

# EWP2200/3200 SPECIFICATIONS

## PHYSICAL CHARACTERISTICS

Form Factor:	Candy Bar
Dimensions:	<b>EWP2200:</b> 4.74 in. L x 2.13 in. W .81 in. D/ 120.5mm L x 54mm W x 20.6mm D <b>EWP3200:</b> 4.74 in. L x 2.13 in. W .81 in. D/ 120.5mm L x 54mm W x 20.6mm D
Weight:	<b>EWP2200:</b> 5.3 oz./150 grams <b>EWP3200:</b> 5.4 oz./152 grams
Display:	2.0" Transmissive + Micro-reflective (TMR) 256K colors, 320 W x 240 L (QVGA size) with backlight brightness control (light sensor)
Backlight:	White LED backlight
Main Battery:	Rechargeable Lithium Ion High Capacity Battery: 1750 mAh Talk/Standby*: up to 9/100 hours
Backup Battery:	Lithium Ion battery (rechargeable) 1mAh, 3V, 1 cell (not user-accessible)
Notification:	Vibrator and LED
Keypad:	Alpha Numeric
Audio:	High audio speaker, receiver, microphone; 2.5mm stereo headset jack; dedicated quick connect PTT button

## PERFORMANCE CHARACTERISTICS

CPU:	TI OMAP™ 600 MHz processor
Operating System:	Microsoft® Windows Mobile® 6.5 Native capabilities include: Internet/Intranet access via Internet Explorer Mobile; Windows Media Player 10; text messaging clients, email/calendar/PIM Microsoft®
Browser:	HTML 2.0 compliant
Memory:	256MB RAM/512 MB ROM
Interface:	USB 2.0
Integrated Motorola Applications:	Mobile extension and push-to-talk (PTT) client; Bar Code Scanner

## CAMERA/DATA CAPTURE EWP3200 ONLY

Capture module:	Color camera with flashlight and aiming capability
Resolution:	3.2 Mega pixel with auto focus
Aiming Element (Red LED):	626 nm +/-6 nm
Illumination Element (LED):	White (Yellow diffused)
Bar Code Reading performance:	1D & 2D barcodes
Sample Symbolologies Supported:	1D includes: UPC/EAN, Code 128, code 39, UCC-EAN128 and Codabar 2D includes: DataMatrix, QRcode and PDF417

## USER ENVIRONMENT

Operating Temperature:	14° F to 122° F/ -10° to 50° C
Storage Temperature:	-40° F to 185° F/-40° C to 85° C
Humidity:	50 °C, 90-95% Relative Humidity, 8 hours
Antenna:	Internal
Drop Spec:	MIL 810F MIL 516.5, IV; 4 ft./1.2m drop, 16 drops
Environmental Sealing:	IPx2
Electrostatic Discharge (ESD):	±15kV air, ±8kV direct
Product Flammability Test:	Yes
MIL-STD-810F 510.4 Dust:	Yes
Vibration (TIA/EIA para 3.3.4)	Yes
Languages supported:	English, French, Spanish, German, Italian, Swedish

## WLAN DATA AND VOICE COMMUNICATIONS

Transmitters:	Wi-Fi 802.11 a/b/g/n and Bluetooth*
Spreading Technique:	Direct Sequence Spread Spectrum (DSSS) and Orthogonal Frequency Division Multiplexing (OFDM)
Bands:	Bluetooth & 802.11b/g: 2.4000 - 2.4835 802.11a: 5.15-5.25, 5.25-5.35(DFS), 5.47-5.725(DFS), 5.725-5.850GHz
Max Data Rate:	Bluetooth: 3 Mbps; 802.11b : 11 Mbps; 802.11a/g: 54 Mbps; 802.11n: 72Mbps
Antenna:	Dual-band omni-directional antenna for Wi-Fi & Bluetooth
WLAN Radio:	Tri-mode IEEE® 802.11a/b/g/n (note: 802.11a not available where prohibited or restricted)
Channels:	Chan 36-165 (5180 – 5825 MHz) Chan 1-13 (2412 - 2472 MHz) Actual operating channels and frequencies depend on regulatory rules and certification agency
Operating Security:	Wifi Protected Access ver 1 and 2 (WPA and WPA2): "Personal" Pre-Shared-Key, "Enterprise". Encryption: AES/CCMP, TKIP, WEP 802.1x with Authentication Server (AAA/Radius): EAP-TLS, EAP-FAST, EAP-PEAPv0/MSCHAPv2
Voice Communication:	Integrated Voice-over-IP ready (P2P, PBX, PTT), SIP 2.0 standards support
Bluetooth:	Class 1.5, v. 2.0+EDR
Bluetooth Profiles:	SPP – Serial Port Profile HSP – Headset Profile Profile HFP – Hands-free Profile v1.5 OPP – Object Push Profile Bluetooth PBAP – Phonebook Access Profile GAVDP – Generic Audio Video Distribution Profile HID – Human Interface Device Profile AVRCP – Audio Video Remote Control Profile Profile

## REGULATORY

Electrical Safety:	IEC/EN 60950-1
Environmental:	RoHS-compliant
WLAN and Bluetooth Radio:	USA: FCC Part 15.247; 15.407; Canada: RSS-210; EU: EN 300 328; EN 301 893; EN 302 502; AU: AS/NZS 4268
RF Exposure:	USA: FCC Part 2, FCC OET Bulletin 65 supplement C FCC SAR COMPLIANCE FCC - 47CFR Canada: RSS-102 EU: EN 62209-1 Australian Communications Authority Radio Communications (Electromagnetic Radiation - Human Exposure) Standard
EMI/RFI:	<ul style="list-style-type: none"> <li>• ICES-003 Class B</li> <li>• FCC Part 15 Class B</li> <li>• FCC 06-96 &amp; RSS-210 Annex 9.</li> <li>• EN 301 489-1</li> <li>• EN 301 489-17</li> <li>• AS/NZS CISPR 22</li> </ul>
Certifications:	Bluetooth Qualification testing, 802.11n Wi-Fi Alliance and Wifi Multimedia Logo testing, Cisco CCxv4 certification, Microsoft Logo testing
Infrastructure PBX support:	TDM PBX (via Dialogic) IP PBX: Cisco, Avaya, Nortel, Toshiba, Mitel via Motorola solution

## WARRANTY

The EWP2200/3200 (except accessories) is warranted against defects in workmanship and materials for a period of 12 months from date of shipment, provided that the product remains unmodified and is operated under normal and proper conditions.

## RECOMMENDED SERVICES

Advanced Services:	Standard Commissioning Plus Assessment
Customer Services:	Service from the Start Advance Exchange Support

\* Note: Talk and Standby times vary based on shift and infrastructure profiles

## EWP2200/3200 PERIPHERALS AND ACCESSORIES

A wide variety of accessories allows you to easily customize the EWP2200/3200 VoWLAN smartphone to best meet the needs of your applications and your workers

— including high capacity batteries, audio accessories, carry cases, desktop chargers and more.



**High Capacity Battery**



**Data Cable, Mini, USB/USB/Serial**



**Plastic Holder with Clip**



**Mono over the ear headset with MIC & PTT**



**Mono in the ear headset with MIC & PTT**



**Coil Cord Lanyard\***



**Rapid Travel Charger**



**Single Unit Desktop Charger**



**Multi-Unit Desktop Charger**

\* Note: The intended use of the lanyard is only to secure the device while used with the approved carry accessories.