



The Motorola ES400S by Sprint.

Transform your mobile workers from simply informed to truly empowered.

The small and pocketable ES400S offers the comprehensive voice and data capabilities required to enable your workers to not only receive information, but to take action — immediately. No more paperwork to process at the end of the day. No more delay in receipt of information from the field. No more gathering information before heading out on the road. Now, the tools required to collect and access data, make the best decisions and complete tasks on the spot are always in hand. The result? Action items become actions taken, helping to deliver the maximum efficiency and rapid response times required to provide extraordinary customer care and service, and increase profitability, strength and brand value.

FEATURES

The power to run the most demanding

business applications: 600 MHz powerful ARM 11 processor, an extra-large memory footprint (256MB RAM/1GB Flash) and a user-accessible microSD-Card slot supporting up to 32GB of additional storage

Durability made for the move: Multiple MIL-STD and IEC specifications provide day-in and day-out reliable operation — the ES400S withstands single impacts of 4 ft./1.22 m drops; 300 consecutive 1.6 ft./0.5 m hits and exposure to dust, moisture and rain

Advanced ergonomic design: Motorola's award-winning Industrial Design team utilized human factor studies to bring a new level of ease of use to this device; data entry is easy regardless of hand size, motions are minimized and overall device interaction is highly intuitive

Motorola Enterprise User Interface (MEUI): An industry first in this device category, this custom and customizable business-class interface provides faster and easier access to features and applications, and allows users to tailor the interface to improve their unique workflow and maximize on-the-job efficiency

Dependable Sprint 3G network: Work on the move and without all the delays. The ES400S performs seamlessly on the amazing Sprint 3G network — helping make sure you don't have to stop while on the go.

Best-in-class 3-inch color touchscreen display:

PenTile® technology delivers twice the brightness at half the power of typical displays, conserving battery power while providing excellent readability — even outdoors while special algorithms sharpen edges for crisper and easier-to-read text

Built-in biometric fingerprint reader:

Ensures only authorized workers gain device and network access

Three-year availability: Eliminates issues associated with short product consumer-class device lifecycles — a single model can be deployed for years instead of months

High resolution 3.2 MP autofocus digital

camera: Enables the easy capture of 1D and 2D bar codes, signatures, photos and high-quality videos; features user-controllable light source for optimal bar code capture

Compatibility with Motorola's Mobile

Security Suite: Provides device-level protection — a firewall, intrusion prevention, enforced authentication, data encryption and integrity monitoring protect the data that is resident on and in transit to and from your ES400S devices; Mobile Virtual Private Networks (MVPNs) bring wired-line security to wireless communications without the typical performance degradation

Easy global remote management: Compatibility with Motorola's Mobility Services Platform (MSP) enables comprehensive and flexible centralized management of all devices, anywhere in the world, all from a single console

Motorola MAX Sensor: Interactive Sensor Technology (IST) offers automatic screen rotation, power management features that preserve battery power for full shift use and the ability to utilize sensor data in custom applications

Motorola MAX Locate: Best-in-class GPS implementation enables a signal lock in challenging areas where signals are typically weak, such as urban canyons and indoors, providing more users with location-based services in more areas; supports Assisted and Autonomous GPS with SUPL compliance

Managed Device Service option: Multilingual help desk identifies and resolves issues with minimal user involvement

All-inclusive support plan option: Service from the Start with Comprehensive Coverage covers normal wear and tear as well as internal and external components damaged through accidental breakage for both device and select accessories



Actual size

*Learn more about the ES400S —
contact your Sprint rep today at 1-877-633-1102.*



ES400S Specifications

Physical Characteristics

Dimensions:	Standard Battery: 5.08 in. L x 2.38 in. W x 0.67 in. D 129 mm L x 60.4 mm W x 16.5 mm D Extended Battery: 5.08 in. L x 2.38 in. W x 0.85 in. D 129 mm L x 60.4 mm W x 21.5 mm D
Weight:	Standard Battery: 5.5 oz./156 g Extended Battery: 6.5 oz./188.5 g (including battery, stylus, keypad and strap)
Display:	PenTile® 3 in. diagonal color display, touch, VGA 640 x 480 portrait, Super Bright 750+ NITS (luminous)
Touch Panel:	Polycarbonate analog resistive touch with haptic 'touch vibration response'
Backlight:	LED Backlight
Expansion Slot:	microSD slot – supports up to 32GB
Audio:	Integrated Speaker; audio stereo connector (2.5 mm barrel jack); high-quality speakerphone; supports Bluetooth and PTT wireless or wired headsets
Notifications:	Programmable LEDs; Audio notifications; Vibrator alerts
Device Security:	Biometric (finger swipe) and PIN code
Performance Characteristics	
CPU:	600 MHz, ARM 11 processor, MSM 7627
Operating System:	Windows Mobile 6.5.3 Professional
Memory:	256MB RAM/1GB Flash
User Environment	
Interfaces:	Motorola Enterprise UI; customizable homescreen, enhanced dialer and enterprise camera solution
Drop Specification:	Military Standard (MIL-STD) 810G 4 ft./1.22 m drop specification; 3 ft./0.91 m drop to vinyl covered concrete across the operating temperature range (36 drops at 32° F/0° C, room temperature and 104° F/40° C)
Tumble Specification:	150 1.65 ft./0.5 m tumbles (equivalent to 300 consecutive drops) at room temperature; meets and exceeds applicable IEC tumble specifications
Operating Temperature:	32° F to 104° F/0° C to 40° C
Storage Temperature:	-40° F to 158° F/-40° C to 70° C
Sealing:	Meets and exceeds IP42 sealing
Humidity:	5 – 95% non-condensing
Vibration:	MIL-STD 810G Method 514.5, figure 514.5C-1; 1 hour per axis
Thermal Shock:	-20° F to 158° F/-20° C to 70° C rapid transition

ESD:	±15kv Air discharge, ±8kv direct discharge, ±8kv indirect discharge
Altitude:	-1,200 ft. to 15,000 ft. operational 15,000 ft. shipping
Keyboard/Side Buttons:	1 million presses
Battery	
Capacity:	Standard: Rechargeable Lithium Ion 1540mAh battery @ 3.7 V Extended: Rechargeable Lithium Ion 3080mAh battery @ 3.7 V
Standby Time:	250 hours standard battery 500 hours extended battery
Talk Time:	6 hours (WAN) standard battery 12 hours extended battery
User Profiles:	Outdoor WAN+GPS: 15 min./hour voice communication, 10KB transmission every 10 min, and GPS on all time, default out-of-box configuration of other parameters, minimum 8 hours of operation Outdoor Voice: 15 min./hour voice communication, default out-of-box configuration of other parameters, minimum 16 hours of operation

Data Capture Options

Data Types:	1D and 2D bar codes; photographs; video; signatures; documents
Color Camera	
Resolution:	3.2 megapixel
Illumination:	User-controllable light source for efficient data capture illumination
Lens:	Autofocus
Bar Code Scanning:	Integrated 1D and 2D decoding; user-controllable red line LED aimer

Motorola Interactive Sensor Technology

Motion-sensor:	3-axis accelerometer that enables motion-sensing applications for dynamic screen orientation and power management
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Wireless WAN Voice and Data Communications

Radio:	Dual 3.5G: GSM HSDPA/HSUPA and CDMA-EVDO Rev A broadband for voice and data
Frequency Band:	UMTS/HSDPA and HSUPA: 850, 1900 and 2100 MHz GSM/EDGE: 850, 900, 1800 and 1900 MHz CDMA/EVDO Rev A: 850 and 1900 MHz
Antenna:	Internal antennas: primary and diversity



ES400S Specifications (cont.)

Integrated GPS	
GPS:	Integrated standalone or Assisted-GPS (A-GPS)
Wireless LAN Voice and Data Communications	
Radio:	Tri-mode IEEE® 802.11a/b/g
Security:	WPA2 (Personal or Enterprise); 802.1x; EAP-TLS; TTLS (CHAP, MS-CHAP, MS-CHAPv2, PAP or MD5); PEAP (TLS, MSCHAPv2, EAP-GTC); LEAP, EAP-FAST (TLS, MS-CHAPv2, EAP-GTC)
Antenna:	Internal antenna
Data Rates Supported:	1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48 and 54 Mbps
Operating Channels:	Chan 36-165 (5180 – 5825 MHz) Chan 1-13 (2412-2472 MHz) Chan 14 (2484 MHz) Japan only Actual operating channels/frequencies depend on regulatory rules and certification agency
Voice Communications:	Voice-over-IP ready, Wi-Fi™-certified, IEEE 802.11a/b/g direct sequence wireless LAN, Wi-Fi Multimedia™ (WMM and WMM-PS)
Wireless PAN Data and Voice Communications	
Bluetooth®:	Class II, v2.0 with Enhanced Data Rate (EDR); integrated antenna
Voice and Audio	
Audio:	VoWWAN; VoWLAN; PTT and TEAM Express ready; rugged audio connector; high-quality speakerphone; support for wired and wireless (Bluetooth) headsets; support for PTT headsets, headset and speaker phone modes
Network Communications	
I/O:	Micro USB 2.0 High Speed (host and client)
Peripherals and Accessories*	
Charging Cradles and Cables:	Single slot cradle (includes power supply, international plugs and USB charge cable)
Travel Charging Solutions:	Vehicle holder includes mini USB for charge and sync; auto charge cables (cigarette adapter)
Miscellaneous:	Soft case holster with belt clip; spare batteries and spare stylus
Soft Goods:	Rigid and soft case holsters
* Contact your local Sprint rep for a complete list of ES400S Peripherals and Accessories	

Regulatory	
Electrical Safety:	IEC/UL/CSA/EN 60950-1
Environmental:	RoHS/WEEE compliant
WLAN and Bluetooth (PAN):	USA: FCC Part 15.247, 15.407 Canada: RSS-210 EU: EN 300 328, EN 301 893 Japan: ARIB STD T33, T66, T71 Australia: AS/NZS 4268
Wireless Wide Area Network: GSM-HSDPA/HSUPA	Global: 3GPP TS 51.010, 3GPP TS 34.121, 3GPP TS 34.123 GCF and PTCRB approved USA: FCC Part 22, Part 24 Canada: RSS-132, RSS-133 EU: EN301 511, EN301 908 Japan: ARIB STD T33, T66, T71 Australia: AS/ACIF S042.1 & 3 HAC compliant
Wireless Wide Area Network: CDMA-EVDO Rev A	USA: FCC Part 22, Part 24 Canada: RSS-132, RSS-133 HAC compliant
RF Exposure:	USA: FCC Part 2, FCC OET Bulletin 65 Supplement C Canada: RSS-102 EU: EN 50360; EN62311 Japan: ARIB STD T56 Australia: Radiocommunications Standard 2003
EMI/RFI:	USA: FCC Part 15, Class B Canada: ICES-003 Class B EU: EN55022 Class B, EN 55024, EN 301 489-1, EN 301 489-3, EN 301 489-7, EN 301 489-17, EN 301 489-24, EN 60601-1-2, EN 50121-3-2, EN 50121-4 Australia: AS/NZS CISPR-22

For countries outside USA, Canada, European Economic Area, Japan or Australia, consult your local Motorola representative

Warranty

The ES400S 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: Managed Device Service

Customer Services: Service from the Start with Comprehensive Coverage

The ES400S is a true global product that is supported in all industrial countries.





sprint.com/ES400S

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