



Moto Z Family Technical Specifications

	Moto Z	Moto Z Force (U.S. Only)	Moto Z Play
Dimensions	Height: 155.3 mm Width: 75.3 mm Depth: 5.19 mm Weight: 136 g	Height: 155.9 mm Width: 75.8 mm Depth: 6.99 mm Weight: 163 g	Height: 156.4mm Width: 76.4mm Depth: 6.99mm Weight: 165g
Processor	<p>Verizon: Qualcomm® Snapdragon™ 820 processor with up to 2.2GHz quad-core CPU with Adreno 530 GPU</p> <p>US GSM/ROW: Qualcomm® Snapdragon™ 820 processor with up to 1.8GHz quad-core CPU with Adreno 530 GPU</p>	Qualcomm® Snapdragon™ 820 processor with up to 2.2GHz quad-core CPU with Adreno 530 GPU	Qualcomm® Snapdragon™ 625 processor with up to 2 GHz Octa-Core CPU with Adreno 506 GPU
Software	Android™ 6.0.1, Marshmallow with Moto enhancements (Moto Display, Moto Actions, Moto Voice)	Android™ 6.0.1, Marshmallow with Moto enhancements (Moto Display, Moto Actions, Moto Voice)	Android™ 6.0.1, Marshmallow with Moto enhancements (Moto Display, Moto Actions, Moto Voice)
Display	5.5" Quad HD AMOLED display (1440p [2560x1440] / 535 ppi), Corning® Gorilla® Glass	5.5" Quad HD AMOLED display (1440p [2560x1440] / 535 ppi), Moto ShatterShield™	5.5" Super AMOLED display, (1080p HD [1080x1920] / 403 ppi) Corning® Gorilla® Glass
Storage (ROM)*	Options: 32 GB, 64 GB, microSD card support up to 2 TB	Options: 32 GB, 64 GB microSD card support up to 2 TB	Options: 32GB (VZW & ROW), 64GB (China) with microSD Card support (up to 2 TB)
Memory (RAM)*	4 GB	4 GB	3GB

Rear Camera	13 MP with: f/ 1.8 aperture, optical image stabilization (OIS), laser autofocus, zero shutter lag, color correlated temperature (CCT) flash with dual LEDs, 1.12um pixel	21 MP with: f/ 1.8 aperture, optical image stabilization (OIS), laser autofocus, phase detection autofocus (PDAF), zero shutter lag, color correlated temperature (CCT) flash with dual LEDs, 1.12um pixel with Deep Trench Isolation (DTI)	16MP with: f/ 2.0 aperture, laser autofocus, PDAF, color balancing dual LED flash, 1.3um pixel, zero shutter lag
Front Camera	5 MP with wide field of view and flash	5 MP with wide field of view and flash	5MP with wide field of view and flash
Video Capture	1080p full HD video, 60fps; 4K (30fps)	1080p full HD video, 60fps; 4K (30fps)	720p (120fps), 1080p (30fps), 4K (30fps)
Battery**	U.S., Canada + Europe: 2600 mAh, up to 30 hours mixed usage ROW: 2600 mAh, Up to 24 hours mixed usage China: 2600 mAh, Up to 20 hours mixed usage	3500 mAh, up to 40 hours mixed usage	3510 mAh, up to 50 (US/EMEA), 45 (ROW) and 36 (China) hours mixed usage
Turbo Charging+	U.S., Canada + Europe: TurboPower™ gives you up to 8 hours of power in just 15 minutes of charging ROW: TurboPower™ gives you up to 7 hours of power in just 15 minutes of charging China: TurboPower™ gives you up to 6 hours of power in just 15 minutes of charging	TurboPower™ gives you up to 15 hours of power in just 15 minutes of charging Charge your battery up to 50% in less than 20 minutes	TurboPower™ gives you up to 9 (NA/EMEA), 8 (ROW), 7 (China) hours of power in 15 minutes of charging
Colors <i>Vary by country and channel</i>	Black with Lunar Grey trim, Black front lens Black with Rose Gold trim, Black front lens Fine Gold, White front lens	Black with Lunar Grey trim, Black front lens Black with Rose Gold trim, Black front lens Fine Gold, White front lens	Black/Silver/Black Slate White/Fine Gold/Sugar White
SIM	Nano-SIM Dual-SIM available in select countries	Nano-SIM	Nano-SIM Dual-SIM available in certain countries

Audio	Front-ported loudspeaker, 4-mic support	Front-ported loudspeaker, 4-mic support	Front-ported loudspeaker, 3-mic support
Bluetooth® Technology	Bluetooth version 4.1 LE	Bluetooth version 4.1 LE	Bluetooth version 4.0 LE
Wi-Fi	802.11 a/b/g/n/ac 2.4 GHz + 5 GHz with MIMO	802.11 a/b/g/n/ac 2.4 GHz + 5 GHz with MIMO	802.11 a/b/g/n, 2.4/5 GHz
Water-repellent	Water repellent nano-coating	Water repellent nano-coating	Water repellent nano-coating
NFC	Yes	Yes	Yes
Network Bands	<p>US: CDMA: 850, 1900MHz GSM/GPRS/EDGE (850, 900, 1800, 1900 MHz) UMTS/HSPA+ (850, 900, 1900, 2100 MHz) 4G LTE (B2, 3, 4, 5, 7, 13)</p> <p>ROW: GSM/GPRS/EDGE (850, 900, 1800, 1900 MHz) UMTS/HSPA+ (850, 900, 1700, 1900, 2100 MHz) 4G LTE (B1, 2, 3, 4, 5, 7, 8, 12, 17, 19, 20, 28)</p> <p>China: CDMA: 850 MHz GSM/GPRS/EDGE (850, 900, 1800, 1900 MHz) UMTS/HSPA+ (850, 900, 1900, 2100 MHz) TDS-CDMA: (B34, 39) 4G/TD LTE (B1, 3, 7, 26, 38, 39, 40, 41)</p>	<p>US: CDMA: 850, 1900MHz GSM/GPRS/EDGE (850, 900, 1800, 1900 MHz) UMTS/HSPA+ (850, 900, 1900, 2100 MHz) 4G LTE (B2, 3, 4, 5, 7, 13)</p> <p>ROW: GSM/GPRS/EDGE (850, 900, 1800, 1900 MHz) UMTS/HSPA+ (850, 900, 1700, 1900, 2100 MHz) 4G LTE (B1, 2, 3, 4, 5, 7, 8, 12, 17, 19, 20, 28)</p> <p>China: CDMA: 850 MHz GSM/GPRS/EDGE (850, 900, 1800, 1900 MHz) UMTS/HSPA+ (850, 900, 1900, 2100 MHz) TDS-CDMA: (B34, 39) 4G/TD LTE (B1, 3, 7, 26, 38, 39, 40, 41)</p>	<p>US: CDMA: 850, 1900MHz GSM/GPRS/EDGE (850, 900, 1800, 1900 MHz) UMTS/HSPA+ (850, 900, 1900, 2100 MHz) 4G LTE (B2, 3, 4, 5, 7, 13)</p> <p>ROW: GSM/GPRS/EDGE (850, 900, 1800, 1900 MHz) UMTS/HSPA+ (850, 900, 1700, 1900, 2100 MHz) 4G LTE (B1, 2, 3, 4, 5, 7, 8, 12, 17, 19, 20, 28)</p> <p>China: CDMA: 850 MHz GSM/GPRS/EDGE (850, 900, 1800, 1900 MHz) UMTS/HSPA+ (850, 900, 1900, 2100 MHz) TDS-CDMA: (B34, 39) 4G/TD LTE (B1, 3, 7, 26, 38, 39, 40, 41)</p>
Connectivity	Moto Mods connector, USB-C port for headphones, charging and data transfer, 3.5mm to USB-C headphone port adaptor included	Moto Mods connector, USB-C port for headphones, charging and data transfer, 3.5mm to USB-C headphone port adaptor included	Moto Mods™ connector USB-C port 3.5mm port
Authentication	Fingerprint reader	Fingerprint reader	Fingerprint reader

*Actual available capacity of user storage and internal memory is less because the operating system, software and other functions utilize part of this capacity. The available capacity may change when you upgrade the device.

**All battery life claims are approximate and based on an average user profile that includes both usage and standby. Actual battery performance will vary and depends on many factors including signal strength, network configuration, age of battery, operating temperature, features selected, device settings, voice, data, and other application usage patterns.

+Battery must be substantially depleted; charging rate slows as charging progresses. All battery life claims are approximate and based on an average user profile that includes both usage and standby. Actual battery performance will vary and depends on many factors including signal strength, network configuration, age of battery, operating temperature, features selected, device settings, voice, data, and other application usage patterns.

MOTO MODS SPECS

Moto Insta-Share Projector

Specification	Detail
Dimensions	153 x 74 x 11mm
Weight	125g
Resolution	854x480 WVGA (480p)
Projector technology	DLP
Brightness	50 lumens nominal
Contrast ratio	400:1
Throw ratio	1.2
Image size	Up to 70" diagonal projection
Aspect ratio	16:9
Lamp life rating	10,000 hours
Keystone correction	-40° to 40°
Physical button control	Power/settings, Manual focus
Settings options	Image tilt, Brightness
Battery size	1100mAh
Battery life	Adds up to 60 minutes of projection time

External charging	USB Type C
Audio output	Speaker, Bluetooth or USB-C from Moto Z phone
Display Input	Moto Z phone
Wireless	Moto Z phone cellular and wifi data

JBL SoundBoost

Specifications	Detail
Dimensions	152 x 73 x 13mm
Weight	145g
Number of speakers	2 speakers @ 27mm diameter, stereo sound
Speaker power	3W per speaker, 6W total
Frequency response range	200Hz – 20kHz
Loudness	80dBSPL @ 0.5m
Speakerphone support	Yes
Integrated battery	Yes
Battery size	1000 mAh
Battery life	10 hours
External charging	USB Type C
Charge rate	1A, 5W

Power Pack (3 versions)

Incipio offGRID™ Power Pack

TUMI Power Pack

kate spade new york Power Pack

Specifications	Detail
Dimensions	152.7 x 73.5 x 6.2mm
Weight	79g 85g (wireless version)
Battery size	2220 mAh
Battery life	<i>US & EMEA: Up to 22 hours ROW: Up to 20 hours</i>
Charge rate to phone	4-6W, varies based on phone battery level
Charge rate from phone via wall charger	2.2A, 11W
Wireless charging (exclusive to wireless charging version)	Qi 1.2.1, PMA 3.0"
Wireless charging rate (exclusive to wireless charging version)	5W

Hasselblad True Zoom

Specifications	Detail
Dimensions	152.3 x 72.9 x 9.0 - 15.1 mm
Weight	145g
Sensor Resolution	12MP
Video Resolution	1080p Full HD at 30fps
Mics	2
Sensor Type	BSI CMOS
Sensor Size	1/2.3-inch
Pixel Size	1.55 um
Aperture	f3.5-6.5
Zoom	10x Optical / 4x Digital
Focal Length	4.5-45 mm (25-250mm 35mm equivalent)
Macro	5cm @1x - 1.5m @10x
Flash	Xenon Flash
Flash Modes	Auto, On, Off
Image Stabilization	Still: OIS Video: EIS
ISO Equivalent	Auto, 100, 200, 400, 800, 1600, 3200
Capture Modes	Photo, Panorama, Video, Professional Night Landscape, Night Portrait, Sports, Day Landscape, Back Light Portrait
Focus Modes	Manual Focus: select focus ROI Focus Lock
Pro Mode	Focus, White Balance, f-stop, ISO, Exposure
White Balance	Auto, Incandescent, Fluorescent, Sunny, Shade
Color Effects	Color, Black & White, Pure
Red Eye Reduction	Auto
File format	Still: JPG, DNG (RAW) Video: MPEG4
Storage	Internal Phone: 32GB-64GB microSD Phone: up to 2TB Cloud: Unlimited via Google Photos
Battery life	Phone dependent
Connectivity	Phone Connectivity: 4G/LTE, WiFi
GPS	Phone: Enhanced GeoLocation
Carrying Case	Included

*Efficiency mode charges only when the phone's battery drops below 80% capacity. All battery life claims are approximate and based on a mixed use profile (which includes both usage and standby time) under optimal network conditions. Actual battery performance will vary and depends on many factors including signal strength, network configuration, age of battery, operating temperature, features selected, device settings, and voice, data, and other application usage patterns.