MaxWorkFlow modules
for OtterBox uniVERSE system

mobelisk

Durable. Modular. IoT Enabled. Cloud Connected.

Durability

Accessories combined with the uniVERSE system provide additional shock, vibration, and moisture protection.

Longevity

Adds an additional level of battery capacity to the uniVERSE system while offering both wired and wireless charging options to intelligently charge the mobile device and drive additional peripherals.

Optimized UI

Programmable, LED-based buttons allow devices to be operated in a simplified, appliance-like fashion – thus enabling fast deployments and consistent performance across a varied workforce.

Integration

A complete software development kit (SDK) streamlines the programming process and allows developers to quickly and easily develop secure mobile apps that are tightly integrated with enterprise infrastructure.

Modularity

Modular accessories allow end users to easily add and remove readers, scanners, imagers, and sensors that are specific to the needs of the business and across several popular iOS and Android products.

The MaxWorkFlow modules extend the versatility and value of the Otterbox uniVERSE system into new environments with its modular architecture for enterprise mobility applications. The Otterbox uniVERSE System coupled with the MaxWorkFlow modules form the perfect union of intelligent versatility and optimized power for meeting the needs of a wide variety of deployment scenarios within targeted vertical markets.

Enhanced Monitoring & Data Analytics

Real Time Data Capture - Mobelisk takes device management to a new level with the inclusion of a complete set of IoT (Internet of Things) sensors that continually gather and analyze critical data. Coupled with an enhanced, proactive service & support program and fully cloud-connected solution, the enterprise now has the unique ability to maximize uptime of their deployments in the field and capture real-time operational data to assure the achievement of their return on investment objectives.

Workflow Transformation at the Touch of a Button

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Overall System

Modularity	Support for interchangeable accessories
Dimensions - Barcode Scanner	66 x 104 x 15 (mm)
Dimensions - Barcode Scanner + 3-in-1 Payment Terminal	71 x 134 x 15 (mm)
Weight	TBD
Ingress Protection Level - Barcode Scanner	IP65
Ingress Protection Level - Barcode Scanner + 3-in-1 Payment Terminal	IP54 with protective cover
Drop Height	Mil-Std-810G, Method 516.6 (122 cm, 48 inches) without Optional Shock Case
Temperature Sensor - Range	–40 to +85°C (-40° to 185° F)
Temperature Sensor - Accuracy	±0.4°C (max), –10 to 85°C
Relative Humidity Sensor - Range	0 to 100%
Relative Humidity Sensor - Precision	± 3% RH (max), 0–80% RH
Acceleration Sensor - Range	up to 400g
Acceleration Sensor - Data Rate	Up to 2 kHz (BW = 500 Hz)
Altitude Sensor - Range	10 to 1200 mbar
Altitude Sensor - Accuracy	4 mbar @ 25°C
IMU - Acceleration Range	Up to +/- 8 g
IMU - Rotation Range	Up to +/- 2,560 deg/s
IMU - Rotation Accuracy	+/- 3% Pitch/Roll; +/- 5% Yaw/Heading
Operating Temperature	Mil-Std-810G, Method 501.5 & 502.5, -20°C to +50°C, 48 hrs. @ extremes
Storage Temperature	Mil-Std-810G, Method 501.5 & 502.5, -40°C to 85°C, 48 hrs. @ extremes
Temperature Cycling	Mil-Std-810G, Method 503.5, -20°C to +50°C, >3°C/min., 100 cycles (150 hrs.)
Thermal Shock	Mil-Std-810G, Method 503.5, -20°C to +50°C, >30°C/min., 100 cycles (50 hrs.)
Humidity Cycling	Mil-Std-810G, Method 507.5, 95% RH, 30C, 30%RH @60°C, 240 hrs.
Random Vibration (Non-Operating)	Mil-Std-810G, Method 514.6, Cat. 5, Loose Cargo, 1" displacement, 5 Hz, 1 hr./axis
Random Vibration (Operating)	Mil-Std-810G, Method 514.6, Cat 4., Composite Wheeled Vehicle, 2.24 Grms, 5 to 500 Hz, 1 hr./axis
Shock (Operating)	Mil-Std-810G, Method 516.6, Proc. I, 40g, 11ms, saw-tooth, 3 shocks, +/- per axis, 3 axes
Altitude	Mil-Std-810G, Method 500.5, Procedure I (15,000 ft, non-operating); 57.2 kPa (8.3 psia)
Regulatory	FCC, CE

3-in-1 Payment Module (MPOS Only)

EMV Contact Level 1 & 2 Certified **EMV Contactless Level 1 & 2 Certified**	ISO 18092 and 14443 Supports all major card brands
Encrypted MSR, Chip Card, and Contactless reader with DUKPT key management	
Environmental	
Operating Temperature	32°F to 131°F (0ºC to 55ºC)
Storage Temperature	-4°F to 140°F (-20ºC to 60ºC)
Humidity	Maximum 95% non-condensing
Reliability	
Operating Life	MagStripe Reader: 300,000 card swipes minimum Smart Card Reader: 100,000 card cycles minimum
Mechanical	
Media Thickness	0.76mm ± 0.08mm minimum 0.89mm maximum
Card Seated Switch	ICC fully seated sensor

Mobelisk Cloud Infrastructure

Smartcase Health & Status Data	Automatically routed to Mobelisk Cloud infrastructure for storage, reporting, and visualization.
Environmental Sensor Data	Automatically routed to Mobelisk Cloud infrastructure for storage, reporting, and visualization.
Modular Peripheral Transaction Data	Automatically routed to Mobelisk Cloud infrastructure for storage, reporting, and visualization.
Application Utilization Data	Automatically routed to Mobelisk Cloud infrastructure for storage, reporting, and visualization.

Supported Smartphones & Tablets

iOS	**Android**
iPhone 8	Galaxy S7
iPhone 8 Plus	Galaxy S8
iPhone 7	
iPhone 7 Plus	
iPhone 6	
iPhone 6s	
iPhone 6 Plus	
iPhone 6s Plus	
iPad 2017 (5th generation)	
iPad Pro (1st generation) 9.7 inch	
iPad Pro (2nd generation) 10.5 inch	
iPad Air 2	
iPad 6th Generation	

Contact EMV Reader (MPOS Only)

EMV Certification	Level 1 & 2
Encryption Algorithms	TDES and AES
Lifetime	> 500,000 cycles
MTBF	300,000 Hours
ESD Immunity	4 KV, human body model, ICC contacts
Ingress Protection Level	IP65 with EMV Port Plug IP62 without EMV Port Plug
Operating Temperature	0°C to 55°C (32°F to 131°F)
Storage Temperature	-30°C to 65°C (-22°F to 149°F)
Operating Humidity	Maximum 95% non-condensing, dry storage

Barcode Scanner Option

Ingress Protection Level	IP65
Sensor Resolution	1280 x 800 pixels
Field of View	Horizontal: 42°, Vertical: 28°
Skew, Pitch & Roll	Skew Tolerance: ±60° Pitch Tolerance: ±60° Roll Tolerance: 360°
Focal Distance	From front of engine: 7.64 in.
Aiming LED	610nm LED
Illumination	1 Hyper Red 660nm LED
Ambient Light	Max 107,639 lux (direct sunlight)
Decode Ranges	4 mil Code 39: 3.3 in./8.4 cm (Near) 8.8 in./22.4 cm (Far) 5 mil Code 128: 2.8 in./7.1 cm (Near) 8.2 in./20.8 cm (Far) 5 mil Code 39: 2.0 in./5.08 cm (Near) 13.5 in./34.3 cm (Far) 5 mil PDF417: 3.1 in./7.9 cm (Near) 8.4 in./21.3 cm (Far) 10 mil DataMatrix: 2.9 in./7.4 cm (Near) 10.1 in./25.7 cm (Far) 100% UPCA: 1.8* in./4.6* cm (Near) 26.0 in./66.0 cm (Far) 20 mil Code 39: 2.0* in./5.08* cm (Near) 30.0 in./76.2 cm (Far) * Field of View limited
Operating Temperature	-20° C to 50° C (-4° F to 122° F)
Storage Temperature	-30° C to 70° C (-22° F to 158° F)
Operating Humidity	95% RH, non-condensing at 50° C (122° F)
Storage Humidity	85% RH, non-condensing at 70° C (158° F)
LED Classification	Exempt Risk Group LED product per IEC/EN 62471