

Terminal MC45-R314AT200NF1S

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Meferi MC45 Embedded Computer
RK3568 CPU Wifi Mimo
Quad core 2.0GHz/BT/ Android 14 OS/4GB RAM+32GB ROM
SE 4070 scanner/NFC
Front Camera 5MP/PoE/Standard



Detailed

Physical Characteristics	
Dimensions	261.96 x 217.49 x 38.7 mm
	10.31 x 8.56 x 1.52 in
Weight	915 g / 32.28 oz / 2.02 lbs
Display	10.1 in IPS multi-touch, quick response capacitive touch panel
Active Screen Area	217 x 136 mm
Aspect Ratio	16:10
Resolution	1280 x 800
Keypad	Virtual
Cover Glass	Asahi Glass, 1.1 mm; Full lamination G+G
Coating	AF-Coated screen. It resists fingerprints, enhances durability, and makes cleaning effortless. Perfect for high-traffic retail environments.

Display brightness, NIT	350 NIT
Connectivity	USB-C: 1 x USB Type-C (transmits data only, cannot charge) USB-A: 1 x USB 2.0, 1 x USB 3.0 USB-A & USB-C can be used at the same time. Ethernet Gigabit (802.3ab, support 1000Mbit), Compatible: RJ45; Ethernet (PoE): 802.3af, 13W; 802.3at, 25.5W, with activity LEDs. External Audio in: 3.5 mm. Jack Connector, Support MIC, OMTP & CTIA compatible.
Audio	Two front-firing speakers (2 x 2w); Two silicon microphones with active noise reduction (ANR)
Noise reduction technology	Clear Communication: The dual silicon microphones with noise protection technology ensure crisp and clear audio.
Voice Playback with Google TTS (Text-to-Speech)	Supports multi-language speech playback, enhancing customer communication and service in diverse retail environments.
Extend Memory	Supports Micro SD cards up to 512GB, compatible with Class 2 to Class 10 and UHS-I SD cards.
Power	Power-over-Ethernet (PoE) Support: 802.3af: Provides up to 13W of power 802.3at: Provides up to 25.5W of power Input Voltage: 12V/2A The MEFERI MC45 offers robust power supply options, ensuring flexible and efficient power management for diverse retail environments.
Electrical Overstress (EOS) Protection	Voltage of Charging: 300V Electrical Overstress (EOS) Protection: Protects against excessive voltage, current, and power. Enhances durability and reliability. Includes visible indicators for quick diagnostics and maintenance.
Recessed Reset Button	Pinhole design requiring a thin, solid object to press, preventing accidental activation, and ensuring secure and intentional resets
RTC IC (CAP)	Energy storage module for reliable timekeeping during power outages
Front Camera	5MP, 1080p 60 fps with Fixed Focus
NFC	13.56MHz, ISO 14443 Type A and B; FeliCa and ISO 15693 cards; Card Emulation via Host; Reader mode, Card Emulation and P2P mode.
NFC Feature (Instant Pairing)	With NFC support, users can pair their smartphones with the MEFERI MC45 with a simple tap. Customers instantly receive personalized offers and coupons, while store associates can quickly sign in with their employee badges to assist customers
Performance Characteristics	
Processor	CPU: RK3568, Quad-Core A55 2.0GHz

	GPU: Mali-G52 GPU
Operating System	Android 14 (GMS) Upgradeable to Android 18
Memory	Standard: RAM 4GB / ROM 32GB Optional: RAM 3GB / ROM 32GB RAM 4GB / ROM 64GB RAM 6GB / ROM 128GB
Security Feature	Supports Verified Boot
User Environment	
Operating Temp	-20°C to 60°C -4°F to 140°F
Storage Temp	-30°C to 70°C -22°F to 158°F
Humidity	10% to 85% non-condensing
Sealing	IP54 class protection from water, dust, dirt
Drop Test Report	2.62 ft / 0.8 m multiple drops to concrete over operating temp (certified test report)
Tumble Test Report	300hits, 1.6 ft / 0.5 m tumbles
Electrostatic Discharge (ESD)	±15 kV air discharge; ±8 kV direct discharge;
Sensors	
Proximity Sensor	Used to automatic activation scanner. (working range 35 cm.)
G-sensor	Yes
E-Compass	Supports in PCB, default N/A
LED Indicators	
LED Display Panel	Scanning indicator light: Green and Red; Power on indicator light: Green; PoE supply: RJ45 activity LEDs.
Data Capture	
Scanning	30° angle scanning. Standard: Zebra SE4770. Optional: MEFERI SE4070, SE4030. Zebra SE4770 intelligent barcode and image capture technology provide lightning-fast data recognition and processing, optimized visualization, and ultra-fast scanning of printed and electronic 1D and 2D barcodes. PRZM technology in Zebra scanners ensures optimal optic and best scanning performance.