

14. Technical specifications

Contactless Interface	EMVCo. L1 v3.0 Certified ISO14443 Type A & B (T=CL) Mifare Classic protocol Desfire protocol ISO18092: Support NFC Protocol	Operating Distance	Depending on the card/token up to 10 cm from Reader
Contact Card Interface^{*2}	EMV L1 v4.3 Certified	Compliances	CE, FCC, RoHS, WEEE , REACH EMVCo, PCI-PTS 6.x, TQM MasterCard, VISA, American Express, Discover, Diners
Magnetic Stripe Reader^{*2}	3 Track	LED indicators	4 RGB LEDs
CPU	ARM Cortex A7 Core Operating at 528MHz with ARM TrustZone technology	Display	3.5" IPS LCD Display, 320x480 with Backlight 256K Color palette, Capacitive Touch screen interface
Memory	256 MB, DDR3-800 8GB eMMC, high-speed DDR	Barcode Reading	Integrated camera supporting QR code scanning
Peripheral ports	USB Type C, dual role port capable of powering expansion modules.	Audio	Internal speaker, Mono audio playback. Buzzer
Communication ports	RJ45 connector, Ethernet (100BASE-TX, 10base-10) network port IEEE802.11b/g/n W-LAN GSM/GPRS/LTE CAT 1 MODEM (optional) GNSS, (GPS) support with modem	Integrated Sensor	Ambient Light sensor Proximity Sensor
Expansion modules (optional)	Pulse I/O Expansion Module RS232 interface Extension Module	Dimensions	European Vending Association Compliant Frame Apollo 83.2 x 107.2 x 28.5 mm (LxWxH) ApolloMax 86.5 x 107.2 x 39.5 mm (LxWxH) ApolloPolar 91 x 121 x 42 mm
Environmental	Operating temperature -20 - 55°C Storage Temperature -20 - 70°C Humidity 10 – 90% RH Non-condensing Apollo IP 65 Front ApolloMax IP 50 Front Apollo Polar IP 54 Vandal proof IK 09	Power Supply	110 – 230 VAC, Power Supply with 1.5m cable. MDB port 12–24VDC
Battery	Li-Ion rechargeable Coincell back-up	Color	Black, White

² Apollo Max and Polar only