USC-500 Series

13.3" Integrated POS Terminal
USC-513RB with Rockchip RK3568 Processor

Features

- Supports DeviceOn/iService software for remote device management
- 13.3" FHD LCD (LED backlight) with PCAP touch
- Ultra-thin design with 14 mm narrow bezel
- Multi-function base integrated thermal printer and barcode scanner
- Rich peripherals for diverse applications
- Compact design with small footprint for saving counter space
- G-sensor embedded in main screen to support multiple orientations
- Arm-based support for Android 12 and Linux

Introduction

The USC-513 is a cost-effective integrated point-of-sale (POS) system tailored for diverse retail and hospitality applications. With its sleek modern design, The USC-513 integrates a printer and barcode scanner, streamlining payments and receipt printing in a compact terminal.

Its compact size optimizes space utilization, providing retailers with more space for product displays and promotions. The USC-513 is ideal for retail environments, such as restaurants, convenience stores, cafes, and shopping malls, especially for areas with limited counter space for POS system installation.

Specifications

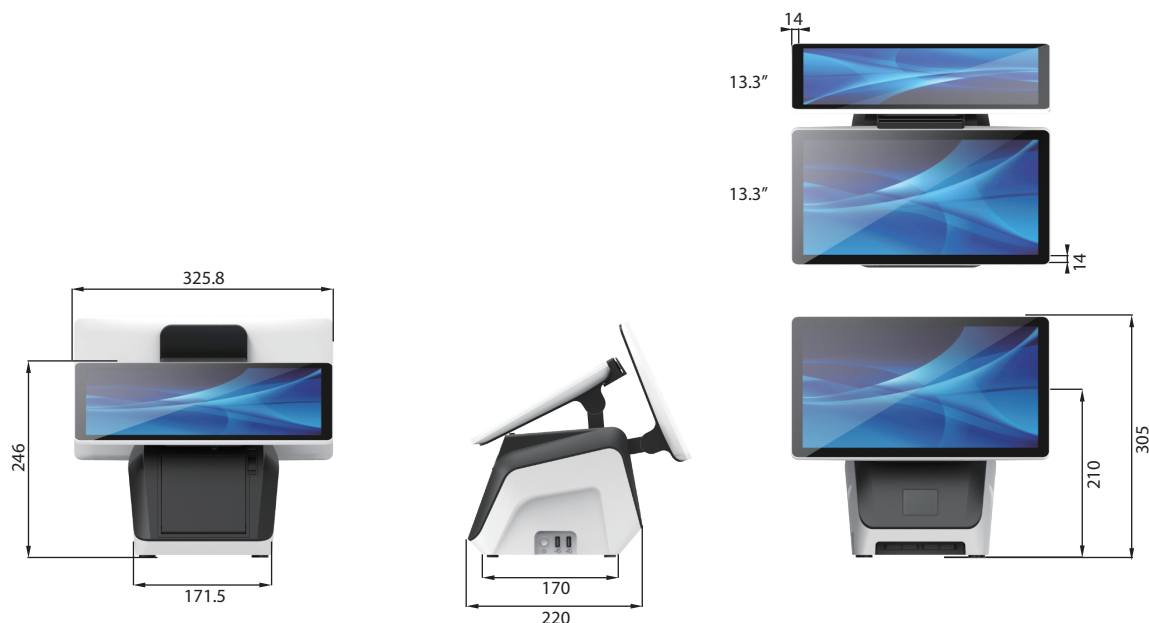| Model		USC-513RB
System	CPU	Rockchip RK3568 Quad-core Cortex-A55 up to 2.0GHz
Graphics	GPU	Mali-G52
Memory	Memory	4GB DDR4 onboard (8GB optional)
	Flash	64GB onboard eMMC, MicroSD slot
LCD Panel	Display Size	13.3" widescreen (16:9) FHD LCD (LED backlight)
	Resolution	1920 x 1080
	Viewing Angle	Horizontal: ±80°, Vertical: ±80°
	LCD Luminance	300 cd/m²
	Contrast Ratio	1500:1
Touch Screen	Main Display	Projected Capacitive Touch Panel (PCAP. flat glass)
	2nd Display	Non-touch, flat glass (PCAP optional)
I/O Port	LAN	1 x 10/100/1000 Mbps
	USB	2 x USB 3.0 (one for OTG), 4 x USB 2.0
	COM	2 x RS232, 1 x RJ-48
	RJ11	1 x RJ-11 for cash drawer
Others	Speaker	2 x 2 W speakers
	Flipable Main Display	Embedded G-sensor
	Adapter	24V$_{DC}$ /180W
Peripherals	Wi-Fi/Bluetooth	Wi-Fi 5 Bluetooth 5.0
	RFID	Supports ISO/IEC 14443A/MIFARE Reader, FeliCa Reader, ISO/IEC 14443B Reader (Optional)
	Barcode Scanner	Embedded 1D/2D scanner, supports QR code (optional)
	Printer	Embedded 80 mm thermal printer with auto-cutter, 170 mm/s max.
	2nd Display	13.3" FHD LCD with or without touch screen (optional)
	MSR	Available ISO TK1, 2 & 3 (optional)

Specifications (Cont.)

Mechanical Specifications	Color	White and black
	Dimensions (W x D x H)	171.5 x 170 x 305 mm (dual display) 171.5 x 170 x 246 mm (single display) 440 x 400 x 430 mm (package)
	Weight	6.4/4 kg (dual or single display)
Environmental	Operating Temperature	0 ~ 40°C (32 ~ 104°F)
	Humidity	max. 95% @ 40°C (104°F) (non-condensing)
	Shock	10G peak acceleration (11 ms duration)
	Vibration	5 ~ 500 Hz 0.5 Grms, random
Certifications		CE, CCC, FCC, CB/LVD, BSMI
DeviceOn/iService Remote Device Management Software	Operating System	Android 12, Linux
	Common Controls (Reboot, Shutdown)	✓
	Remote Desktop	✓ (VNC)
	Device-Specific Controls (Audio, Backlight)	✓
	Connection Status	✓
	Hardware Status	✓
	Batch Operation Support	✓
	OTA Storage Management	Local blob
	OTA Software Updates	✓
	Software Watchlist	✓
	Software Start/Stop	✓
	Kiosk Mode	✓
	Peripherals Watchlist	✓

Note: DeviceOn/iService software must be downloaded from the Advantech website at https://www.advantech.com/search/?q=DeviceOn%2FiService&st=support&sst=Utility

Dimensions
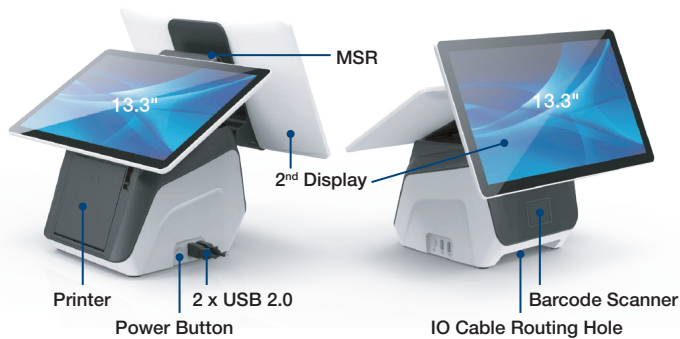
Unit: mm

Ordering Information

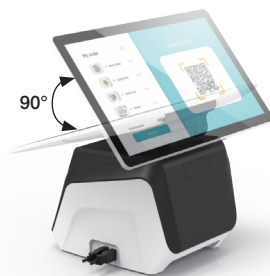| Part Number	Description
USC-513RBP-WD223	13.3", dual FHD, PCAP & Glass, RK3568, 4G RAM, 64G eMMC, Android 12, Printer & Scanner & MSR, Adapter, White&Black

Installation Accessories

Part Number	Description
96CB-POWER-B-1.8MB	Power cable 3P, CCC, 10A, 250V, 180 cm (China)
1700001524 / 1700001524-01	Power cable 3P, UL, 10A, 125V, 180 cm (US, TW)
170203183C / 170203183C-01	Power cable 3P, 10A, 250V, 183 cm (EU)
1700018553 / 1700018553-01	Power cable 3P, SAA, 2.5A, 250V, 183 cm (Australia)
1700025113-11	Power cable, ISI, 3P, 2.5A, 250V, 180 cm (India)
1700018409	Power cable, KCC, 2P, 2.5A, 250V, 183 cm (Korea, Russia)
170203180A / 170203180A-01	Power cable, BSI, 3P, 2.5A, 250V, 183 cm (UK)
1700008921 / 1700008921-11	Power cable, PSE, 3P, 7A, 125V, 180 cm (Japan)

Outlook

Dual Display

Single Display

I/O Layout