CIPHER LAB
Smarter

RS50 series

Android Touch Computer Gets Smart

In recent times, smart phone technology is gaining popularity beyond the casual users and making way into the workplace. As smart phones become more practical, CipherLab timely developed the RS50 rugged Android Touch Computer to provide a true mobile office solution with high-end market standards for enterprises with smartphone users. CipherLab's RS50 Android Touch Computer brings a sense of familiar usability that can streamline data collection with one simple device. Along with reliable Wi-Fi transmission, the RS50 gives users extraordinary mobility inside and outside the four walls.

| ANDROID 6.0 | 4.7" CAPACITIVE TOUCH PANEL | IP65 | IP67 | 1.8M MUTIPLE DROPS | 2D IMAGER | NFC | SAM | 802.11 a/b/g/n /ac | LTE |

RS50 series

Rugged Android Touch Computer

Resourcefulness Starts Here

CipherLab's RS50 Android Touch Computer is the device that will satisfy your enterprise's everyday demands. Not only does the RS50 have a strong processing power, it also has ample memory space you will need for applications. This powerful touch computer is built for toughness with long operational power. In addition to these advantages, the RS50 Android Touch Computer provides resourceful applications and accessories that ensure continuous productivity no matter the operation is in the office or out in the field.

High-end User-friendly Smartphone Experience

CipherLab's RS50 series is the device that perfectly blends personal usability and commercial smartphone functionality. Its 4.7" display with auto-adjustable backlight and sunlight visibility allows users to gather information in any environment. Moreover, the multi-touch panel with stylus inputs is designed to fill field worker's demands to support wet or gloved finger operations. The Android 6.0 OS certified with GMS gives the RS50 the advanced advantages in operation speed, power efficiency and data security. Top it all off with Google Mobile Services (GMS), field workers can integrate Google applications such as Gmail and Google Maps to fully accomplish their tasks in any situation.

Streamline Data Capture

CipherLab's RS50 Android Touch Computer is fully equipped with a 1D/2D barcode reader with the comprehensive abilities to capture data in milliseconds even if the barcode is poorly printed. Users can enjoy the easy capture of high-resolution photos, videos, and signature capture with RS50's 8MP camera for proof of delivery and service. Additionally, it has HF RFID (13.4 MHz) capabilities while supporting contactless NFC applications of peer-to-peer mode and card emulation. As NFC automates the identity verification process, our versatile data collection solution easily streamlines your operations.

The Ultimate Mobility Experience

CipherLab's RS50 is built with the most reliable Wi-Fi and LTE connections to provide constant connection to corporate systems for instant notifications of assignments, route instructions and other daily responsibilities. Its Wi-Fi transmission and strong roaming support can handle a maximum 433 Mbps at 5 GHz and 90 Mbps at 2.4 GHz for constant back-end system connection and immediate system updates with real-time dynamic dispatch. RS50's advance LTE can further facilitate large file transfer, video streaming and remote access to back end systems. Along with GPS/AGPS, RS50 has great accuracy of navigation which enables smart routes and improves accuracy of real-time job dispatches. Management also has Push-to-talk function to maintain efficient and timely communication with field operators.

Raising the Bar on Power, Values and Toughness

The RS50's 2.0 GHz octa-core processor coupled with 2GB RAM and 16GB flash memory ensures full access to any application for business success without worrying about storage space. CipherLab Mobile Deployment System (MDS) provides an easy platform for setup, upgrades, synchronizations, and device settings. CipherLab App-Lock allows managers to prevent inappropriate operations to ensure full productivity from field operators. These powerful applications are well protected with RS50's IP65/67 ratings and 1.8 m drop resistance while being able to sustain 1,000 tumbles at 1 m. Additional protection from Dragontrail™ Glass prevents wear and tears for clear readability. RS50 also comes with the options of 4000 and 5300 mAh batteries which can respectively operate at a minimum of 12 hours. Combined with hot-swap function and a back-up battery, The RS50 operational power can withstand long shifts while providing smooth operation without data loss concerns.

RS50 series
Rugged Android Touch Computer

Performance	Operating system	Android 6.0 (GMS)	
	CPU	Octa-core Cortex A53 Up to 2.0 GHz	
	Memory	16 GB Flash / 2 GB RAM	
	Expansion	Micro SD card slot with SDHC support (up to 32GB)	
	SIM / SAM	2 SIM slots and 1 SAM slot	
	Operating power	Replaceable and rechargeable 3.8V 4000 mAh Li-ion battery	Replaceable and rechargeable 3.8V 5300 mAh Li-ion battery
	Working hours[1]	Minimum 12 hours[1]	Minimum 16 hours[1]
	Alert	Tri-color LEDs, vibrator, speaker	
	Interface supported	USB 2.0 OTG and charging contact	
Wireless communication	WWAN[2]	GSM / GPRS / EDGE / WCDMA / HSPA / HSPA+ / LTE CAT6 Worldwide GSM : 850/900/1800/1900 Americas GSM : 850/900/1800/1900 UMTS : 850/900/1900/2100 UMTS : 850/900/AWS(1700)/1900/2100 FDD LTE : 800/900/1800/2100/2600 (FDD 20,8,3,1,7) FDD LTE : 700/850/1700/1900/2600 TDD LTE : 2600 (TDD 38) (FDD 13,17,5,4,2,7)	
	WLAN	IEEE 802.11 a/b/g/n/ac dual band	
	WLAN security	WEP, WPA (PSK, TKIP), WPA2 (AES, PSK), WPA-1X (TKIP,EAP-TLS, PEAP), WPA2-1X (AES, EAP-TLS, PEAP) ,802.1x(EAP-TLS, PEAP) AES-CCMP, WPI-SMS4, GCMP, WPS2.0, WAPI	
	WPAN	*Bluetooth*® Class II, V4.1 dual mode, V2.1 with Enhanced Data Rate (EDR)	
	Bluetooth® profile	GAP, SDP , HSP, SPP, GOEP, OPP, HFP, PAN, A2DP, AVRCP, GAVDP, HID , PBAP	
	GPS	Built-in GPS , GLONASS, BeiDou, AGPS	
Data capture	Barcode scanning	2D imager	
	RFID read / write	HF RFID 13.56 MHz frequency which supports ISO14443A, ISO14443B, ISO15693, Felica Support NFC (Peer-to-Peer, Card Reader, Card Emulation)	
	Camera	Autofocus 8 megapixels (F2.0) with user-controllable flash	
Physical characteristics	Display	4.7" HD 720 (W) x 1280 (H), Capacitive touch supports bare/wet/gloved finger and stylus inputs	
	Interactive Sensor Technology	Light sensor, proximity sensor, accelerometer, e-compass	
	Keypad	Dedicated scan key, 4 programmable keys, volume up and down keys, left and right trigger keys, power key	
	Voice and Audio	VoLTE & HD voice support; Speaker, dual array microphones with echo and noise cancellation	
	Size (LxWxH)	162 x 80 x 26 mm	
	Weight (including battery)	330 g	365 g
User environment	Operating temperature	-20°C to 50°C / -4°F to 122°F	
	Storage temperature	-30°C to 70°C / -22°F to 158°F	
	Humidity (non-condensed)	Operating 10% to 90% / Storage 5% to 95%	
	Impact resistance	1.8 m (6 ft.) multiple drops onto concrete, 6 drops on each side, IP65/ IP67/ 1000 tumbles at 1 m	
	Electrostatic discharge	± 15 kV air discharge, ± 8 kV contact discharge	
	EMC regulation	CE, Green, NCC, FCC, BC	
		RoHS, REACH, WEEE, ErP	
Development support		Android 6.0 SDK, reader API, SAM API, HTML 5 API	
Application software		Reader Configuration, Button Assignment, MDS, Software Trigger Key, Xamarin Binding, CipherLab TE, App-Lock, HTML5 (Browser and API), SOTI MobiControl, Kalipso	
Accessories		Charging and Communication cradle (USB or Ethernet), USB snap-on cable, 4-slot battery charger, Pistol Grip 4-slot terminal charger with optional Ethernet function (TBD)	
Warranty		1 year	

1. Minimum 12/16 hours under WLAN and 2D scanning per 20 seconds, LCD 50% backlight and speaker on (volume is default) at 25°C, RFID off / *Bluetooth*® off / IEEE 802.11 b/g/n/ac on. The test is based on one broadcasting packet per second.
2. The mobile computer has received general telecommunication certification for data communication. Please check with your local carrier for the optimum operating efficiency.

ACCESSORIES

Charging and Commiunication Cradle

USB snap-on cable

4-slot Battery Charger

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