



# RS50 series



## Android Touch-Centric Mobile Computer with Industrial Ruggedness

CipherLab RS50 series is a new touch mobile computer, which is well-balanced between ruggedness and user-friendly form factor to deliver superior user experience. Tailored for user's demands in logistics, field service, and warehousing, the RS50 series is equipped with the up-to-date technologies in operating system, wireless communications, application software, and development tools. All these featured designs are protected under the industrial ruggedness up to IP67 to assure the performance in any harsh environments. Moreover, the RS50 series can easily operate over a shift at one charge. User's productivity is fully supported.



# RS50 series

Touch Mobile Computer



Performance	Operating system	Android 6.0		
	CPU	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 3.7V 4000 mAh Li-ion battery	Replaceable and rechargeable 3.7V 5300 mAh Li-ion battery	
	Working hours	Minimum 10 hours <sup>1</sup>	Minimum 12 hours <sup>1</sup>	
	Interface supported	Customized IO (Charging and USB OTG)		
Wireless communication	WWAN <sup>2</sup>	LTE, HSPA+		
	WLAN	IEEE 802.11 a/b/g/n dual band		
	WPAN	Bluetooth® Class II, V4.1 dual mode, V2.1 with Enhanced Data Rate (EDR)		
	GNSS	Built-in GPS/ GLONASS, A-GPS, Beidou		
Data capture	Barcode scanning	2D imager		
	RFID read / write	HF RFID 13.56 MHz frequency which supports ISO14443A, ISO14443B, and ISO15693 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)		
	Touch panel	Capacitive touch with stylus or bare or gloved fingertip input		
	Interactive Sensor	Light sensor, proximity sensor, accelerometer, e-compass		
	Keypad	4 on screen keys, volume up and down keys, right trigger key (Programmable)		
	Audio	Speaker, dual array microphones with echo and noise cancellation		
	Size (LxWxH)	162 x 80 x 26 mm		
	Weight (2D imager including battery)	330 g	360 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 (4 ft.) multiple drops onto concrete, IP65/ IP67/ 1000 tumbles at 1 m		
	Electrostatic discharge	± 15 kV air discharge, ± 8 kV contact discharge		
Development support	CipherLab API and Android 6 Standard 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, 4-slot terminal charger with optional Ethernet function (TBD)			
Warranty	1 year			

1. Minimum 10/ 12 hours under WLAN and 2D imager scanning per 20 seconds, LCD 50% backlight and speaker on (volume is default) at 25°C, Bluetooth® off / IEEE 802.11 a/b/g/n on. The test is based on one broadcasting packet per second.

ACCESSORIES



Charging and Communication Cradle



USB Snap-on Cable



4-slot Battery Charger



**HEADQUARTERS**  
**CipherLab Co., Ltd.**  
 12F, 333 Dunhua S. Rd., Sec.2  
 Taipei, Taiwan 10669  
 Tel +886 2 8647 1166  
 Fax +886 2 8732 3300  
 www.cipherlab.com

**CipherLab Electronics Trading (Shanghai) Co., Ltd.**  
 J Room, 4F, No.728 West Yan'an Rd.  
 Changning District, Shanghai  
 China 200050  
 Tel +86 21 3368 0288  
 Toll Free 400 920 0285  
 Fax +86 21 3368 0286

**CipherLab USA Inc.**  
 2552 Summit Ave STE 400  
 Plano, Texas, USA 75074  
 Tel +1 469 241 9779  
 Toll Free 888 300 9277  
 Fax +1 469 241 0697

**CipherLab Europe**  
 Flight Forum 40,  
 5657 DB Eindhoven,  
 The Netherlands  
 Tel +31 (0) 40 2951510