

**CIPHER LAB**  
Smarter

# 8600 series



## New Generation of cOS Terminals

Designed for the demanding needs of warehouse, distribution center and manufacturing industry, the CipherLab 8600 series combines functionality, ruggedness, and mobility all into one terminal with easy-to-use features. The 8600 series operates with the CipherLab Operating System (cOS), which reduces redundant system programming and fulfills serious AIDC applications. Its compact design is shelled with durability which makes it easy to move around. Along with versatile features and value-added software, 8600 series is an ideal companion for your work force and will undoubtedly simplify their tasks and increase their overall productivity.



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## New Generation: The 8600 Series

The 8600 series mobile computer is a pioneer product of new generation. It is a combination of functionality, ruggedness, and mobility rolled all into one efficient device. The 8600 has a color display that defines background and text with various colors to improve readability and support rich data management tasks. It runs on CipherLab OS to reduce redundancy in programs and applications for users. A rugged protection standard is in place to fully protect the 8600's functions and features. A modular charging / communication system and swappable keypad provides flexible configuration. Along with all these features, the Forge Application Generator designed for the 8600 provides new and updated benefits for productivity.



Swappable Keypad

## Durability and Ruggedness for Excellent Protection

The 8600 series mobile computer is specifically designed with top durability in mind. Being compact and ergonomic, it's extremely rugged with IP65 standard which is capable of enduring exposure to dust, dirt and water jets. It can withstand 1.8 m drops onto concrete and also endure up to 1,000 tumbles at 1 m, which ensures efficiency in harsh conditions and protection from accidental drops or other unexpected damages. These protection features make the 8600 series one of the toughest of its kind in the market

today. The 8600 series' rugged features also have the optional hard shell that gives extra protection and ease of grip. The LCD display is covered by a polycarbonate panel protector for extra protection from hits and accidents. With all of these rugged capabilities, the 8600 series proves to be a great asset under harsh environments and can greatly reduce possible replacement costs due to unexpected damages.

## Flexible Keypad and Modular System Designs Built with Compatibility

The 8600 series' flexible design comes with swappable keypads which give the 8600 series the power to easily swap between 29 or 39 keys when it is necessary. The 8600 series also comes equipped with a modular system which provides various combinations of charging / communication cradles and battery chargers. This makes the initial configuration modification very simple. This flexible design will also assist in reducing the inventory level while providing more cost-effective re-configurations for end users. Additionally, it will also make repair and replacement process easier and quicker.



Modular Charging and Communication System

## Ergonomic and Lightweight Design

The 8600 series is purposely designed with ergonomics and lightweight to provide more flexible mobility for its users. Weighing only approximately 240 grams, it allows for comfortable operation all-day with maximum mobility. It also has an optional pistol-grip that the users can employ for easier operation of intensive scanning to improve productivity.



## Versatile Reader Options with Long-lasting Power

The 8600 series is equipped with versatile reader options in linear imager, laser and 2D imager to ensure flexible assistance with all your scanning demands. It also comes with optional RFID reader option to improve efficiency of inventory management for warehouse and distribution centers or apply for asset management in challenging environments. Having long lasting power along with these capabilities can absolutely provide an efficient solution to wider data collecting demands.



## Smooth Operation with GPS Communications

The 8600 series comes with GPS as an option which is unique among other products of its kind. When it is required, this GPS feature can be engaged to improve accuracy of outdoor asset management and give field workers the ability to provide more complete information for management anywhere.



## Value-added Software for Quick Start-up and Efficient Operation

The 8600 series is equipped with the Forge Application Generator which is designed for simple dealing with sequences of input, data processing and output. Additionally, the application's running sequences could be simulated on PC. Users can easily create an application without worrying about writing any program codes. The 8600 series is supported by central remote management software, Remote Console, which enables the PC host to manage and maintain multiple mobile devices and reduce time for the IT management in wide-spread deployment.





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		8600		
Performance	CPU	ARM Cortex-M3		
	Program memory	16MB Flash		
	Data memory	8MB / 16MB SRAM		
	Expansion	micro SD slot with SDHC support		
	Operating power	Rechargeable 3.7V 1100mAh / 2200mAh Li-ion battery		
	Working hours <sup>1</sup> (1100mAh / 2200mAh)	32 / 64		
	Data retention	25 days		
	Alert	Two programmable dual-color LEDs (red / green and blue / green), vibrator		
	Speaker	0.5W, 80dB@2KHz		
Wireless communication	GPS (Optional)	--	IEEE 802.11 b/ g/ n	--
		--	WEP, EAP, WPA-PSK, WPA2-PSK	--
		--	Bluetooth® V4.0 Dual mode (2.1+EDR / BLE)	Bluetooth® V4.0 Dual mode (2.1+EDR / BLE)
		--	SPP, DUN, HID	SPP, DUN, HID
		GPS JN3, Internal antenna		
Data capture	Barcode scanning	Linear imager / Laser / 2D imager		
	RFID (read / write) (Optional)	Frequency: 13.56MHz, Support tags: ISO 14443A, ISO 14443B, ISO 15693		
Physical characteristics	Display	2.83" color LCD, 240 x 320 pixels, TFT with programmable LED backlight		
	Keypad	Swappable, 29 keys / 39 keys, programmable LED backlight		
	Dimension (L x W x H)	170 x 60 x 30 mm		
	Weight <sup>4</sup>	Approx. 240g		
User environment	Operating temperature	-10° to 60° C / 14° to 140° F		
	Storage temperature	-20° to 70° C / -4° to 158° F		
	Humidity (non-condensed)	Storage: 5% to 95% / Operating: 10% to 90%		
	Impact resistance	Multiple 1.8m / 6ft. drops onto concrete, 5 drops on each side, 1,000 tumbles at 1m / 3ft, IP65		
	Electrostatic discharge	± 15kV air discharge / ± 8kV direct discharge		
	Regulatory compliance	FCC, CE, BSMI, NCC, RCM, IC, CCC, SRRC, JRL RoHS, REACH, WEEE, ErP		
Development support		GCC C Compiler and BASIC Compiler		
Applicable software		FORGE Application Generator, Remote Console		
Cradles		Charging and Communication Cradle, Cradle Kit		
Accessories		Hard Shell, Pistol Grip, Snap-on Cable, Battery Charger, Wristband		
Warranty		1 year		

1. Based on one standard laser scan per five seconds with level 1 backlight.



**HEADQUARTERS**  
**CipherLab Co., Ltd.**  
 12F., No. 333, Sec. 2,  
 Dunhua S. Rd., Da'an Dist.,  
 Taipei City 10669, Taiwan  
 Tel: +886 2 8647 1166

**CipherLab China**  
 E Room, 9F,  
 No.726 West Yan'an Rd.,  
 Changning District,  
 Shanghai, China 200050  
 Tel: +86 21 3368 0288

**CipherLab Europe**  
 Cahorslaan 24,  
 5627 BX Eindhoven,  
 The Netherlands  
 Tel: +31 (0) 40 2990202

**CipherLab USA**  
 2552 Summit Ave. STE 400,  
 Plano, Texas 75074, USA  
 Tel: +1 469 241 9779