



8500 series

Industrial Mobile Computer

Flexible, accurate, and easy to use, the 8500 series gives you the right data capture tools, so you can make smarter decisions for your business.

The 8500 series captures data effectively with both RFID and barcode reading capability, and communicates wirelessly in three different ways to your corporate information system.

Designed to interface with any operating system, the 8500 series is a versatile, efficient, mobile computer suitable for rugged service in most environments.

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Industrial / Manufacturing

From paper products to electronics, pharmaceuticals, and automobiles, the 8500 series helps streamline your workflows and puts timely information in front of the people who need it to make the best choices that drive a successful business. Throughout receiving and inspection, WIP, QA, and shipping, the 8500 series gives all your processes a flexible, reliable data capture tool. Workers will appreciate its rugged, yet comfortable design, long battery life, and flexible data capture capabilities.

Transportation / Logistics

What could be better than getting the right goods to the right place, delivered on-time? Knowing their location, movement, condition, and delivery status, every step along the way. The 8500 is your key to logistics and transportation success by keeping you informed with more accurate data for scheduling, dispatching, shipping, receiving, and route accounting. A rugged device with flexible data capture, this mobile, handheld computer is easy to use, and combines powerful computing with long battery life and communications options to transmit data to where it's needed, when it's needed.

Two readers for today and tomorrow

Designed for barcode reading and RFID interrogation, the 8500 helps you benefit from today's AIDC applications, plus prepares you for more comprehensive RFID tagging possibilities in the future. The 8500 series gives your operation the capabilities to build a better business today and tomorrow.

When Windows® is not required

The best decisions you make for your business put the right functionality in the hands of workers. Many applications don't need Windows® for easy data capture and entry. Those are the work environments ideal for the 8500 series.

Windows® requires more computing energy than text-based systems, resulting in shorter battery life. For longer operating periods, the 8500 series text-based OS puts a lighter load on the processor, extending battery operation up to 400 hours.

Familiar VT100/220 and TN5250 Terminal Emulation, a terminal emulation keypad and a large, multi-font, LCD touchscreen displaying up to 19 lines of text make the 8500 series easy to use and easy to read inside and outside. The 8500 series adds powerful, wireless data management in any enterprise operating system environment.



Wide acceptance, broad application

Retail, manufacturing, professional service, government agency, and healthcare industries have benefited from CipherLab's innovative designs, comfortable ergonomics, ruggedness, features, and value in their mobile computer products.





Flexible, powerful, effective data collection that fits your infrastructure and works with you

BUILT STRONG FOR EXTREME ENVIRONMENTS

Bumps, drops, cold, heat, humidity and constant use. These are the reasons we designed the 8500 series for the most extreme treatment. It can withstand harsh abuse, extreme operating conditions (there's even an optional heater), and dusty, wet environments—and continue to deliver the performance you need.

PERFECT FOR ENTERPRISE-WIDE SYSTEM SOLUTIONS

Designed around industry-leading computing technology, the 8500 delivers maximum computing power for your applications. Its CF slot enables wireless WAN (GSM/GPRS) capabilities or memory expansion to increase flexibility and expandability for large system applications.

THERE WHEN YOU NEED IT

The 8500 keeps working day and night with efficient energy usage and long battery life. Its 4000 mAh battery works through multi-shift operations between recharges, with up to 400 hours of use in batch mode and 32 hours using WLAN1. A backup battery protects data during battery replacement.

THE RIGHT TOOL AT THE RIGHT TIME AND THE RIGHT PLACE

Built to work the way you do, the 8500 series integrates a range of communications options. Wireless LAN (802.11b/g) enables instant wireless communications with backend systems. Wireless WAN (GSM/GPRS) gives you maximum productivity in the field to update enterprise databases from anywhere. BT Class 2 compliance puts more information in more places wherever and whenever you need it. Plus, USB, modem and Ethernet-enabled cradles give you limitless options for communications.

EASY LABEL READING – AT ANY DISTANCE

Long- and extra-long-range lasers boost productivity and accelerate all reading activities, from as close as 5 cm (2 in.) up to 13 meters (43 ft.) away. Laser and linear imager options allows ideal adaptation to your environment and requirements.

The 8500 reads a wide range of codes, including the latest 2D symbologies. Increasingly used where small label size and large amounts of data are desired, 2D codes allow high-data density in such applications as small item tracking, electronic component marking, portable data files, material data safety sheets or secure personal identification such as drivers licenses.



CIPHERLAB PRODUCTS ARE VALUED WORLDWIDE FOR ENGINEERING EXCELLENCE. THE 8500 SERIES IS ANOTHER EXAMPLE OF TECHNICAL INNOVATION AND QUALITY VALUE FOR TODAY'S AIDC SOLUTIONS.

SPECIFICATIONS

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8500 8570 8580 8590

Performance	CPU	32-bit CMOS			
	Memory	2MB Flash ROM 2MB, 6MB, 10MB SRAM			
	Operating power	Removable, rechargeable 3.7V 4000 mAh Li-ion battery			
		Adapter: AC 110V / 220V input DC 6V 3.3 A output via cradle			
	Working hours ¹	400 hours batch mode 70 hours WLAN mode			
	Backup power ²	3.0V 7.0 mAh Lithium battery / Data retained 1 week minimum			
Alerts	Programmable LED, buzzer, vibrator				
Wireless communication	WLAN	—	IEEE 802.11b/g (350 m line of sight) ²	—	IEEE 802.11b/g (350 m line of sight) ²
	WWAN	—	—	GSM/GPRS	GSM/GPRS
	WPAN	BT Class 2 compliance			
	Serial	IR / IrDA (115.2 Kbps)			
Data capture	Barcode scanning	Linear imager / Laser / Long-range laser / Extra-long-range laser / 2D imager			
	RFID reader/writer	Frequency: 13.56 MHz Supported tags: ISO 14443A, ISO 14443B, ISO 15693, ICODE			
Physical characteristics	Display	3.0" 160 × 160 pixels, touchscreen, white LED backlight, heater option			
		26 characters × 19 lines small font or 20 characters × 9 lines large font			
	Keypad	24 numeric / 44 alphanumeric keys / 44 terminal emulation keys, LED backlight			
	LED	Dual color: green, red			
Size L x W x H Weight	230 × 91 × 63 mm / 9.1 × 3.6 × 2.5 in.				
	600 g / 21.2 oz. configuration dependent				
User environment	Operating temperature	-20° to 60°C -4° to 140°F	-10° to 60°C / 14° to 140°F		
		Storage temperature	-30° to 70°C / -22° to 158°F		
	Humidity	5% to 95% non-condensing			
	Impact resistance	Multiple 1.5 m / 5 ft. drops onto concrete, 5 drops on each side / IP64			
	Electrostatic discharge	±8 kV direct electrostatic discharge			
EMC regulation	BSMI, CE, C-Tick, DGT, FCC, MIC, RSS-210, TELEC				
Programming	C, Basic, Windows® -based CipherLab Power Suite FORGE Application Generator				
Terminal emulation	VT100/220 and TN5250				
Communication cradle	RS232, USB, 56 Kbps modem, Ethernet				
Accessories	4-slot battery charger, vehicle cradle, belt holster, protective cover, pistol grip				
Warranty	1 year				

¹ Based on one standard laser scan per five seconds with backlight on. ² Effective coverage depends on user environment and equipment deployment. It is highly recommended to conduct a site survey before actual deployment.

ACCESSORIES



Travel Cradle

Charging and Communication Cradle
USB client / USB host / Ethernet



Vehicle Cradle
DC 12~48V input



4-Slot Battery Charger



Belt Holster



Protective Cover



Pistol Grip

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