# CIPHER LAB
Smarter

**9500**

# 9500 series

Designed to fit your world, the 9500 series gives you the right data capture tools at the right time, so you can make smarter decisions for your business.

The 9500 series lets you work indoors and outside, safely, effectively, and easily, with *both* RFID and barcode reading capability (imager or laser), and communicate wirelessly in three different ways to your corporate information systems. The 9500 series is the most versatile, efficient, mobile computer available.

# 9500 series
## Industrial Mobile Computer

## Industrial / Manufacturing

From paper products to electronics, automobiles, and pharmaceuticals, the 9500 series helps streamline your workflows and puts timely information in front of the people who need it to make both everyday and critical decisions that drive a successful business. From receiving and inspection, through WIP, QA, and shipment, the 9500 series, with industry-standard Windows® operating system, gives all your processes a flexible, rugged data capture tool that easily integrates into your back-end systems. Workers will appreciate its rugged, yet comfortable design, long battery life, and flexible data capture capabilities.

With both RFID and barcode reading capabilities, the 9500 series enables you to take advantage of tracking existing material, process, and product data, plus prepares you for more comprehensive RFID tagging possibilities beyond lots and batches. The 9500 gives your operations the capabilities to build a better business today and tomorrow.

## 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 9500 series 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—both RFID and barcode reading—this mobile, handheld computer is easy to use indoors and in daylight, and combines powerful computing with long battery life and multiple communications options to get accurate data where it's needed, when it's needed.
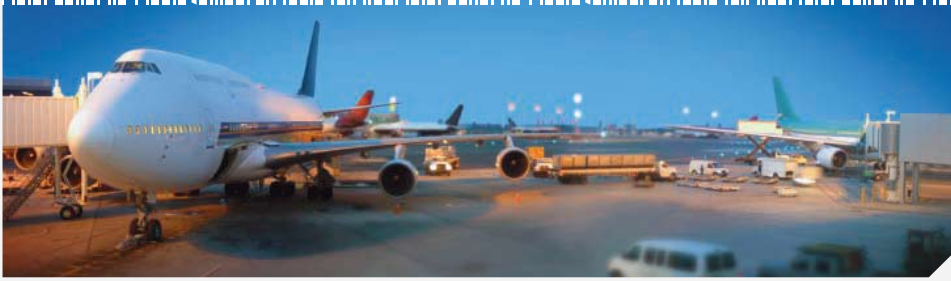
As RFID applications increase to monitor, secure, and protect goods and shipments, the 9500 gives you the right tool to meet mandates and stay proactive. With the 9500 in your infrastructure, you can stay a step ahead of your delivery and your competition.

## Easy Label Reading—At Any Distance

Eliminate the impacts on productivity from reading labels in distant or physically hard to reach locations, and accelerate all reading activities with longer-range lasers. The 9500 series gives you laser choices to read farther, while still reading barcodes close up.

The 9500-LL, with a long-range laser, reads a 10 mil label as close as 5 cm (2 in.), while still able to read a 55 mil label as far away as 2.3 meters (7.6 ft.). For longer distances, the 9500-XL, with extra-long-range laser, can read a 10 mil label at 15 cm (6 in.) and a 100 mil label up to 13 meters (43 ft.) away. Whether workers need to scan products inches away, across the aisle, or on the very top shelf, the 9500 series easily conforms to your work environment, making it ideal for many applications.

- Asset tracking
- Inventory management
- Pallet tracking
- Picking and put away
- Shipping and receiving
- Tool crib
- Warehouse management
- Work in process

## 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 Works The Way You Do

### BUILT STRONG FOR EXTREME ENVIRONMENTS

Bumps, drops, cold, heat, humidity and constant use. These are the reasons we designed the 9500 for the most extreme treatment. It can withstand repeated 1.5 meter drops onto concrete, temperatures from -10°C to 50°C with up to 95% humidity, and dusty, wet environments to IP64 specifications—and continue to deliver the performance you need.

### PERFECT FOR ENTERPRISE-WIDE SYSTEM SOLUTIONS

Designed around industry-leading XScale™ technology and Windows® operating systems, the 9500 delivers maximum computing power with multimedia, energy efficiency, and easy application and system integration capabilities. Its large memory capacity, plus SD and CF slots, increase flexibility and expandability for large system applications.

### THERE WHEN YOU NEED IT

The 9500 keeps working day and night with efficient energy usage and long battery life. Its 4000 mAh battery enables up to 20 hours of use between recharges[1] for multi-shift operations. A backup battery protects data during battery replacement.

### AN EFFECTIVE INVESTMENT—FOR TODAY AND TOMORROW

The 9500 series maximizes data collection flexibility with minimum total cost of ownership. With multi-mode communications and both RFID and a barcode reader in the same device, you can collect multiple data types and transmit anywhere, making the 9500 series ideal for a variety of applications, in-house and in the field. If RFID is not yet part of your infrastructure, you'll be ready for it without additional investment.

### THE RIGHT TOOL AT THE RIGHT TIME AND THE RIGHT PLACE

Built to work the way you do, the 9500 integrates a range of communications options. Wireless LAN (802.11b/g) enables instant communications with back-end systems through local access points. Wireless WAN (GSM/GPRS) gives you maximum productivity in the field to update enterprise databases from anywhere. Handy 2.4 G radio WPAN puts more information in more places wherever and whenever you need it. Plus, USB and Ethernet-enabled cradles give you limitless options for communications.

### EASY TO USE

The large 3.5-inch transflective, backlit display and touchscreen let workers easily view information indoors and in bright daylight. The 27-key keypad and touchscreen stylus give users different control options, while multiple feedback methods keep them informed of system activities. Comfortable for long hours of use with or without the pistol grip, the 9500's are supported with a full range of accessories.







CIPHERLAB PRODUCTS ARE VALUED WORLDWIDE FOR ENGINEERING EXCELLENCE. **THE 9500 SERIES** IS ANOTHER EXAMPLE OF TECHNICAL INNOVATION AND QUALITY VALUE FOR TODAY'S AIDC SOLUTIONS.

[1] Based on one standard laser scan per five seconds with backlight on

# SPECIFICATIONS

# 9500 series

## Industrial Mobile Computer



## ACCESSORIES

| | | 9500 | 9570 | 9580 | 9590 |
|---|---|---|---|---|---|
| **Performance** | Operating system | Microsoft® Windows® CE 5.0 Professional | | | |
| | CPU | XScale™ PXA270 @ 520 MHz | | | |
| | Memory | 128MB Flash ROM    128MB SDRAM | | | |
| | Expansion | SD card slot / CF type 2 slot | | | |
| | 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] | 20 hours batch mode    13 hours WLAN mode | | | |
| | Backup power | 3.7V 110 mAh Lithium battery | | | |
| | | Data sustained 6 hours minimum | | | |
| | Alerts | Volume adjustable speaker / Programmable vibrator / LED signals | | | |
| **Wireless communication** | WLAN | | IEEE 802.11b/g 300 m / 984 ft. line of sight[2] | | IEEE 802.11b/g 300 m / 984 ft. line of sight[2] |
| | WWAN | | | GSM/GPRS | |
| | WWAN | BT Class 2 compliance | | | |
| **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 | 3.5" Color QVGA, TFT transflective, touchscreen, LED backlight | | | |
| | Keypad | 27 keys LED backlit | | | |
| | LED | Tri-color: green, red, blue | | | |
| | 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 | -10° to 50°C / 14° to 122°F | | | |
| | Storage temperature | -20° to 60°C / -4° to 140°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 | CE, C-Tick, FCC, RSS-210, TELEC | | | |
| **Programming** | | eMbedded Visual C++ 4.0, eMbedded Visual Tools, Visual Studio. NET, Visual Studio 2005, CipherLab FORGE Application Generator, MIRROR Terminal Emulator, MCL, Wavelink®, SOTI | | | |
| **Communication cradle** | | USB client / USB host / 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.



**Charging and Communication Cradle** *USB client / USB host / Ethernet*

**Travel Cradle**



**Vehicle Cradle** *DC 12 to 48V input*



**4-Slot Battery Charger**



**Belt Holster**



**Protective Cover**



**Pistol Grip**