Smarter Solutions

PERFORMANCE, EFFICIENCY, ACCURACY

CIPHERLAB
Smarter

About CipherLab

CipherLab designs and delivers industry-leading business performance and efficiency solutions around AIDC (automatic identification and data collection) hardware and software. We have been a technology innovator for more than twenty years, with a range of market-changing and industry-pioneering products—mobile computers, proprietary terminals, wireless and tethered barcode scanners, fixed data terminals, software solutions, and more. Our products impact the daily lives of customers and workers of transportation and logistics, field mobility, healthcare, manufacturing, retail, warehousing, and public and government services, adding performance, accuracy and return on investment to the bottom line of our customers.

Our success is built on a deep respect for our customers, business partners, employees, and investors. CipherLab culture promotes entrepreneurial ideas and practices to continually nurture new ideas, and better solutions. We put great value in strong customer partnerships and rely on multi-national, interdisciplinary teams to provide the best quality and value in leading-edge products and services.

CipherLab is a concerned world citizen, both with respect to our common environment and social responsibilities. Our solutions are in place saving energy, time and money throughout the world.

Software

CipherLab Application Development software customizes our devices to workflows and allows fast deployment into web-based processes. Terminal Emulators enable immediate deployment into mainframe-based processes. Programming tools include critical functions and valuable libraries used for AIDC solutions. And Device Management tools allow IT personnel to efficiently maintain and manage a fleet of CipherLab mobile computers. In addition, Scanner software enables quick and easy configuration.

Application Development

CipherLab **FORGE Application Generators** let you quickly customize workflows and user templates for batch and wireless environments. Design new applications on a PC in minutes, test them on a simulated mobile computer, and deploy them to your device.

SYSDEV KALIPSO
mobile application generator

KALIPSO Mobile Application Generator is a powerful software designed for Windows®-based mobile computers. Simple and intuitive to operate, users can create applications with drag and drop either online or offline.

Browsers and Terminal Emulators

CipherLab MIRROR Browser turns your CipherLab Windows®- based mobile computer into an accurate, effective, and user-friendly data capture tool for any web-based task. **MIRROR VT100/ VT220 and TN5250 Terminal Emulators** allow you to quickly adapt host console output to CipherLab mobile screens without redesigning your applications, saving time and development effort.

Wavelink Industrial Browser offers an alternative to instantly deploy Windows®- based mobile computers into web-based workflows. **Wavelink Terminal Emulator**, designed for IBM® 3270/ 5250, VT100/ 110/ 220/ 330, and HP systems, expands the capabilities of Windows®- based mobile computers to meet the needs of multiple types of mainframe environments.

Naurtech CETerm Browser and Terminal Emulator integrates data collection features for Windows® - based mobile computers with wireless security technologies and scripting capabilities to enable more efficient and customized workflows. Certified by industry-standard platforms, such as SAP Netweaver ITSMobile, Naurtech CETerm ensures all remote tasks required by the software are completed. CETerm supports both SSL and SSH protocols to ensure secure data transmissions.

Device Management

CipherLab Application Manager and **App-Lock** give administrators full control over all executable files saved in the mobile computers. Limited access could be set up to essential device settings and pre-approved applications, so workers can stay focused on the tasks at hand.

Wavelink® Avalanche™ combines Mobility Center, a management console for control and configuration, CE Secure, and Remote Control in an integrated system designed to simplify mobile device management and to reduce total cost of ownership.

SOTI-MobiControl for Windows®-based mobile computers delivers a robust set of features to support remote management. MobiControl's remote device diagnostics, helpdesk toolset, screen capture, remote software provisioning, and advanced security are a few features, which allow for rapid and reliable management over any network for any size of deployment.

Programming

CipherLab Blaze C and BASIC Compilers let you build custom applications for CipherLab proprietary terminals in the Windows®-based programming environment. A menu-driven interface simplifies software development and code modifications, making it easy to develop robust applications that perfectly fit your needs.

Scanner Software

CipherLab CipherConnect is a COM-to-key software utility designed for CipherLab cordless scanners to work as an input device for smart devices – enabling intensive data collection via *Bluetooth*® Serial Port Connection. Now it is available for Android, Blackberry, and Windows® Mobile via *Bluetooth*® SPP (Slave).*

*Apple's iPhone, and iPod Touch (2nd Generation) support *Bluetooth*® HID profiles when running iOS 4 and above, where CipherConnect is not needed to pair with CipherLab cordless scanners.

CipherLab ScanMaster offers a comprehensive solution to configure scanners, edit format, set up symbology, and much more. It is easy to set up through the standard Windows® operation system. All generated settings can be saved and printed out as barcodes. By scanning these barcodes, other users could configure their scanners within seconds.

CipherLab scanners are versatile, agile, and priced right for long-lasting value. They can capture data from regular and long barcodes, high density barcodes, to poorly printed barcodes with a choice of linear imager, 2D imager, or laser. Together with *Bluetooth*® cordless and corded applications, CipherLab scanners help you run business more efficiently with improved operations.

1000 series*

- Contact scanning eliminates misreading clustered or poorly printed barcodes.
- Reads barcodes up to 90 mm wide, 3-mil resolution and 30% PCS.**
- 1.2 m/ 4 ft. drop resistance.**
- Widely programmable, supporting multiple data editing, interface selection and symbology configuration.

*1000 series family includes model 1000, 1090+, and 1070.

**The specification may vary depending on product model and configuration.

1600 series

- Ultra-lightweight and mini-sized.
- Instant pairing with smartphones, PDAs and any *Bluetooth*® devices.
- 4 MB on-board memory holds over 256,000 scans.*
- IP42 rating and 1.5 m drop resistance.**
- Choice of AAA battery and rechargeable Li-ion battery provides 40 working hours.**

*The calculation is based on EAN13 barcode.

**The specification may vary depending on product model and configuration.

Accessories: 3610 *Bluetooth*® transponder, battery charger, protective cover.

1100 series*

- 100-meter *Bluetooth*® connectivity.
- Reads 1D barcodes up to 3-mil density.
- Runs 45 hours or over 32,000 scans on single charge.**
- Corded CCD scanner withstands 2 m/ 6.6 ft. multiple drops onto concrete.

*1100 series family includes model 1100, 1200, 1166, and 1266.

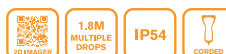**The specification may vary depending on product model and configuration.

Accessories: holder, charging and communication cradle, wall mount / desk stand, auto-sense stand.

1700 series

- 1.3-megapixel 2D imager captures barcodes, signatures, and high resolution images up to A4-sized dimensions.
- IP54 rating and 1.8 m/ 6 ft. drop resistance.
- Manifold alerts includes bright LED alert, adjustable volume alert and vibration.

Accessories: power hood.

1500 series

- Captures high density (3-mil) 1D barcodes as well as long barcodes.*
- Up to 200 decodes per second.
- 90-meter *Bluetooth*® connectivity.
- IP30 rating and 1.5 m drop resistance.*
- Runs 24 hours on single charge.*
- Records over 256,000 scans in batch mode, and stores up to 640 scans in buffer memory.**

*The specification may vary depending on product model and configuration.

**The calculation is based on EAN13 barcode.

Accessories: 3-in-1 auto-sense stand, hands-free adjustable stand, battery charger.

5000 / 5100

- Perfect for secure-area access.
- Integrated RFID reader simplifies access.
- 9 MB of data memory.
- Optional 10/100 Ethernet and 802.11 b/g.

520

- Ideal for line operations.
- Built-in barcode or magnetic stripe reader.
- Supports wand, CCD, and laser scanners.
- 30-key keypad.

CipherLab Windows®-based mobile computers combine powerful computing with rugged design, making them ideal for flexible, enterprise-wide solutions across multiple industries. Comes with versatile functionalities, they offer fully automated operation whether in the fields or within the fence. Users are now able to fulfill their tasks with ultimate support and simplified operation.

9600 series

- IP64 rating and 1.5 m/ 5 ft. drop resistance. Sustains 1,000 tumbles at 1 m/ 3.3 ft.
- *Bluetooth*®, CCX v4 certified 802.11 b/g, and 2.75G EDGE connectivity with GPS option.
- Barcode reader options include linear imager, laser, 2D imager and built-in HF RFID (13.56 MHz).
- Built-in 2-megapixel digital camera with LED flash.
- 3.5" VGA or QVGA transflective LCD touch screen.
- Operating system: Microsoft® Windows® CE 6.0

Accessories: charging and communication cradle, Ethernet cradle, vehicle cradle, vehicle charger, 4-slot battery charger, pistol grip, protective cover, belt holster, hand strap, rechargeable battery pack, USB charging and communication cable.

CP30 series

- 1.2 m/ 4 ft. drop resistance.
- 3.5G HSDPA, 802.11 b/g, and *Bluetooth*® connectivity.
- Reader options include laser and 2D imager.
- GPS/ AGPS ready.
- Built-in 3.2-megapixel digital camera.
- Equipped with CipherLab Smart Shell to customize your interface, generating easy application navigation.
- Operating system: Microsoft® Windows Mobile® 6.5

Accessories: charging and communication cradle, protective cover, adapter for vehicle charging, earphone, power adapter, rechargeable battery, USB cable.
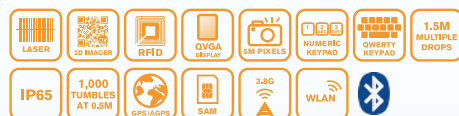
CP50 series

- IP65 rating and 1.5 m/ 5 ft. drop resistance. Sustains 1,000 tumbles at 0.5 m/ 1.6 ft.
- 3.8G HSPA+, 802.11 b/g and *Bluetooth*® wireless connectivity.
- Reader alternatives include laser, 2D imager, and HF RFID (13.56 MHz).
- GPS/ AGPS ready.
- Built-in 5-megapixel autofocus camera with LED flash.
- 3.5" QVGA transflective LCD display.
- On-board 2 GB memory.
- Operating system: Microsoft® Windows® Embedded Handheld 6.5

Accessories: charging and communication cradle, pistol grip, vehicle mount, adapter for vehicle charging, earphone, power adapter, rechargeable battery, protective cover, hand strap, belt holster with shoulder strap, USB charging and communication cable.

CP60 series

COMING SOON

- IP65 rating and 1.8 m/ 6 ft. drop resistance. Sustains 2,000 tumbles at 1 m/ 3.3 ft.
- 4G LTE, 802.11 a/b/g/n and *Bluetooth*® wireless connectivity.
- Reader options include laser, long range laser, and 2D imager.
- GPS/ AGPS ready.
- Built-in 5-megapixel camera with LED flash.
- 3.5" VGA or QVGA transflective LCD display.
- On-board 4 GB memory.
- Operating system: Microsoft® Windows® Embedded Handheld, Microsoft® Windows® CE 6.0 R3, Android™ 2.3.4

Accessories: vehicle cradle, charging cradle, belt holster, protective cover, pistol grip, hand strap, rechargeable battery pack, snap-on (USB/ RS232).

1861 Handheld RFID Reader

- UHF RFID reading and writing capabilities.
- Compatible with *Bluetooth*® mobile devices.
- IP64 rating and 1.5 m/ 5 ft. drop resistance. Sustains 1,000 tumbles at 1 m/ 3.3 ft.
- An optional snap-on mount integrates your mobile computer and 1861 handheld RFID reader into one robust device.
- Max. reading range: 1 m/ 3.3 ft; max. writing range: 0.5 m/ 1.6 ft.
- Easy configuration through PC or mobile devices via multiple configurators for PC, Windows® mobile computers, CipherLab terminals, and .NET SDK.

Accessories: battery charger, CipherLab 9600 series mobile computer mount, 3610 *Bluetooth*® transponder.

CipherLab robust proprietary terminals are designed to tackle task-specific applications and provide long lasting performance with no down time. Featured simple and user-friendly interface, users are able to instantly get familiar with daily operations with very little training. In addition, the free Application Generator software allows quick and easy application development, giving users handy tools for maximized customization.

8000 series

- Pocked-sized and lightweight.
- 1.2 m/ 4 ft. drop resistance.
- Reader alternatives include linear imager and laser.
- *Bluetooth®* connectivity.
- 100 hours of operation in batch mode, and 36 hours of operation under *Bluetooth®* communication.
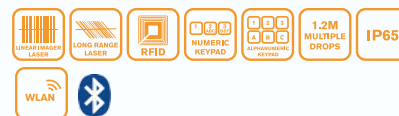- Option of AAA battery or rechargeable Li-ion battery.

Accessories: communication cradle, charging and communication cradle, modem cradle, Ethernet cradle, GPRS cradle, 3G cradle, 4-slot battery charger, AC/DC power adapter, RS232 cable, USB cable.

8300 series

- IP65 rating and 1.2 m/ 4 ft. drop resistance.
- 270 hours of operation in batch mode, and 40 hours of operation under wireless usage.
- *Bluetooth®* and 802.11 b/g connectivity.
- Reader options include linear imager, laser, long range laser, and HF RFID (13.56 MHz).
- Keypad choice of 24 numeric or 39 alphanumeric keys.

Accessories: charging and communication cradle, modem cradle, Ethernet cradle, 4-slot battery charger, AC/DC power adapter, keyboard wedge cable, RS232 cable, USB cable.

8200 series

- Light and compact design.
- IP54 rating and 1.2 m/ 4 ft. drop resistance.
- Reader options include linear imager, laser, and 2D imager.
- *Bluetooth®* and 802.11 b/g connectivity.
- 124 hours of operation in batch mode, 40 hours of operation under *Bluetooth®* communication, and 20 hours of operation under 802.11 b/g usage.
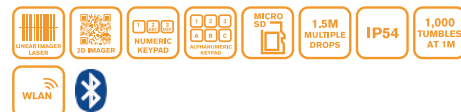- Comes with Micro SD card slot with SDHC support.

Accessories: charging and communication cradle, Ethernet cradle, protective cover, pistol grip, RS232 charging and communication cable, USB charging and communication cable.

8400 series

- IP54 rating and 1.5 m/ 5 ft. drop resistance. Sustains 1,000 tumbles at 1 m/ 3.3 ft.
- *Bluetooth®* and 802.11 b/g connectivity.
- 110 hours of operation under *Bluetooth®* connectivity, and 35 hours under 802.11 b/g usage.
- Reader choice of linear imager, laser, and 2D imager.
- Terminal emulation ready.
- Optional 39-key keypad with 20 function keys enables full terminal emulation operation.
- Ergonomic tilted scan angle and 2.6" 160 x 160-pixel display.
- Micro SD card slot available with SDHC support.

Accessories: charging and communication cradle, modem cradle, Ethernet cradle, 4-slot battery charger, AC/DC power adapter, keyboard wedge cable, RS232 cable, USB cable.

8700 series

- IP64 rating and 1.5 m/ 5 ft. drop resistance. Sustains 1,000 tumbles at 1 m/ 3.3 ft.
- Operates across extreme temperatures (-20°C to 55°C/ -4°F to 131° F).
- Equipped with 3" 160 x 160-pixel touch screen.
- Reader options include linear imager, laser, 2D imager, long range laser and HF RFID (13.56 MHz).
- *Bluetooth®*, 802.11 b/g and 3.5G HSDPA connectivity with GPS option.

- 170 hours of operation in batch mode, 66 hours of operation under 802.11 b/g connectivity, and 10 hours of operation under 3.5G HSDPA usage.
- Terminal emulation ready.
- Keypad option of 24 numeric keys and 44 alphanumeric keys. The latter comes with 24 function keys enabling terminal emulation operation.

Accessories: charging and communication cradle, belt holster, pistol grip, protective cover, vehicle charger, RS232 charging and communication cable, USB charging and communication cable.

In an industry where hygiene is vital, the importance of preventing the growth of microbes is escalating. CipherLab addresses the needs in a healthcare environment with its antimicrobial protection series to resist the growth of bacteria which causes odor and stain.

Unique from other devices claiming antimicrobial protection which are often coated with a protective film, CipherLab antimicrobial protection series comes with Microban® technology built into the product housing, withstanding repeated alcohol disinfection without wearing off while reducing microbial growth on the surface.

8000H series

- Lightweight and compact.
- Reader alternatives include linear imager and laser.
- *Bluetooth*® connectivity.
- 100 hours of operation in batch mode, and 36 hours of operation under *Bluetooth*® communication.
- 1.2 m/ 4 ft. drop resistance.

Accessories: communication cradle, charging and communication cradle, modem cradle, Ethernet cradle, GPRS cradle, 3G cradle, 4-slot battery charger, AC/DC power adapter, RS232 cable, USB cable.

1500H series

- Captures 3-mil 1D barcodes.*
- Up to 200 decodes per second.
- 90-meter *Bluetooth*® connectivity.
- Runs 24 hours on single charge.*
- IP30 rating and 1.5 m drop resistance.*
- LED light and adjustable buzzer confirm a successful scan, even in dim lighting, to avoid duplicate scans.

*The specification may vary depending on product model and configuration.

Accessories: 3-in-1 auto-sense stand, hands-free adjustable stand, battery charger.

8200H series

- Lightweight and ergonomic design.
- Reader choice of linear imager, laser, and 2D imager.
- *Bluetooth*® and 802.11 b/g connectivity.
- 124 hours of operation in batch mode, 40 hours of operation under *Bluetooth*® communication, and 20 hours of operation under 802.11 b/g usage.
- IP54 rating and 1.2 m/ 4 ft. drop resistance.

Accessories: charging and communication cradle, Ethernet cradle, protective cover, pistol grip, RS232 charging and communication cable, USB charging and communication cable.

1600H series

- Ultra-lightweight and mini-sized.
- Instant pairing with smartphones, PDAs and any *Bluetooth*® devices.
- 4 MB on-board memory holds over 256,000 scans.*
- Choice of AAA battery and rechargeable Li-ion battery provides 40 working hours.
- IP42 rating and 1.5 m drop resistance.**

*The calculation is based on EAN13 barcode.

**The specification may vary depending on product model and configuration.

Accessories: 3610 *Bluetooth*® transponder, battery charger, protective cover

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Specifications

		Mobile Computers								UHF RFID Reader
Operating System		Microsoft® Windows®			CipherLab Proprietary					
Model		9600 Series	CP30 Series	CP50 Series	8000 Series	8200 Series	8300 Series	8400 Series	8700 Series	1861
Wireless Communications	WPAN	Bluetooth®	Bluetooth®	Bluetooth®	Bluetooth®	Bluetooth®	Bluetooth®	Bluetooth®	Bluetooth®	Bluetooth®
	WLAN	802.11 b/g	802.11 b/g	802.11 b/g		802.11 b/g	802.11 b/g	802.11 b/g	802.11 b/g	
	WWAN	2.75G EDGE	3.5G HSDPA	3.8G HSPA+					3.5G HSDPA	
Reader Options	Linear Imager	√			√	√	√	√	√	
	Laser	√	√	√	√	√	√	√	√	
	Long Range Laser						√		√	
	2D Imager	√	√	√		√		√	√	
RFID		HF: 13.56 MHz		HF: 13.56 MHz			HF: 13.56 MHz		HF: 13.56 MHz	UHF: 865 ~ 868 MHz 902 ~ 928 MHz
GPS		√	√	√					√	
Camera		2 MP with LED flash	3.2 MP	5 MP autofocus with LED flash						
Ingress Protection		IP64	IP42	IP65		IP54	IP65	IP54	IP64	IP64
Drop Resistance		1.5 m/ 5 ft.	1.2 m/ 4 ft.	1.5 m/ 5 ft.	1.2 m/ 4 ft.	1.2 m/ 4 ft.	1.2 m/ 4 ft.	1.5 m/ 5 ft.	1.5 m/ 5 ft.	1.5 m/ 5 ft.
Tumbling (Times / Height)		1,000/ 1 m, 3.3 ft.		1,000/ 0.5 m, 1.6 ft.				1,000/ 1 m, 3.3 ft.	1,000/ 1 m, 3.3 ft.	1,000/ 1 m, 3.3 ft.

		Scanners				
Model		1000 Series	1100 Series	1500 Series	1600 Series	1700 Series
Reader	Linear Imager	√	√	√	√	
	Laser		√	√	√	
	2D Imager			√	√	√
Category	Corded	√	√	√		√
	Bluetooth®		√	√	√	
Bluetooth® Range of Coverage			100 m/ 320 ft.	90 m/ 250 ft.	10 m to 20 m/ 33 ft. to 66 ft.	
High Density Barcode		√	√	√	√	
PCS Minimum*		30 %	30 %	30 %	30 %	25 %
Ingress Protection*				IP30	IP42	IP54
Drop Resistance*		1.2 m/ 4 ft.	2 m/ 6.6 ft.	1.5 m/ 5 ft.	1.5 m/ 5 ft.	1.8 m/ 6 ft.

*The specification may vary depending on product model and configuration.

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