**Performance**

- **RF Communication:**
  - Bluetooth® 2.0 (2.4 GHz) (Version 2.1+EDR)
- **Coverage:**
  - 20 m / 66 ft. line of sight
- **Standard profile:**
  - SPP, HID
- **Category:**
  - Bluetooth® laser scanner
  - Bluetooth® linear imager scanner
  - Bluetooth® 2D imager scanner
- **Optical sensor:**
  - Laser
  - 2500 pixels
  - 752 x 480 pixels
- **Light source:**
  - Visible laser diode at 650 nm
  - 625 ±5 nm Red LEDs (2x)
- **Depth of field (depends on barcode resolution):**
  - 2x-42 cm / 0.8 to 16.5 in.
  - 2x-80 cm / 0.8 to 31.5 in.
  - 2x-120 cm / 0.8 to 47.2 in.
- **Scanning angle:**
  - Pitch ±65°, Slew ±50°
  - Pitch ±70°, Slew ±50°
  - Pitch ±60°, Slew ±60°
- **Pitch:**
  - ±70°, Skew ±70°
  - ±65°, Skew ±50°
  - ±60°, Skew ±60°
- **Scanner:**
  - 500 scans / second
  - 300 scans / second
  - 50 scans / second
- **Scanning:**
  - Code 93, Code 128, GS1-128, GS1 DataBar Expanded
  - Code 93, Code 128, GS1-128, GS1 DataBar Expanded

- **Programmable features:**
  - Data editing, interface selection, symbology configuration

- **Language support:**
  - US and UK English, French, Italian, Spanish, Italian, German, French, Portuguese, German, Dutch, Spanish, Italian, German, French, Portuguese, Spanish, Italian, French, Portuguese, Spanish, Italian, French, Portuguese, Spanish

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<thead>
<tr>
<th>1602</th>
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<tbody>
<tr>
<td>Wi-Fi</td>
<td>Bluetooth®</td>
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<tr>
<td>2.4 GHz</td>
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<td>2.4 GHz</td>
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**Barcodes supported:**

**Electrical:**
- **Power consumption:**
  - Standby / Operating: 20 mA / 200 mA @ 3.7 V
  - 20 mA / 224 mA @3.7V
  - 20 mA / 230 mA @ 3.7 V
  - 20 mA / 320 mA @ 3.7 V
  - 20 mA / 320 mA @ 3.7 V

**Environment:**
- **Temperature:**
  - Operating: 0 °C to 50°C / 32°F to 122°F
  - Storage: -20°C to 60°C / -4°F to 140°F (w/o battery)

**User Interface:**
- **Memory:**
  - 4 MB

**Power Supply:**
- **Memory:**
  - 4 MB

**Configuration:**
- Setup option includes Windows®-based ScanMaster software

**Warranty:**
- 1 year

Pocket-sized Scanner

Designed for healthcare, field sales and service environments, the CipherLab 1600 series brings high flexibility to the workers in the workplace. The Bluetooth® communication and pocket-sized form factor with extreme lightweight unleash workers and allow them to go where the work is and get more done, in more places.
The 1600 series liberates and mobilizes healthcare and field workers with its ultra-portable, light-weight form factor combined with optional Bluetooth® connectivity. Mobile salespeople or field service technicians could combine the 1600 series with a PDA or Smartphone to collect and transmit data via WWAN, ensuring the back-end system is always up-to-date. Furthermore, the pocket-sized IP42 certified device passed the 1.5 m drop test which allows workers to roam freely about their workspaces without worries.

Maximum Mobility and Durability in Pocket-size

The 1600 series liberates and mobilizes healthcare and field workers with its ultra-portable, light-weight form factor combined with optional Bluetooth® connectivity. Mobile salespeople or field service technicians could combine the 1600 series with a PDA or Smartphone to collect and transmit data via WWAN, ensuring the back-end system is always up-to-date. Furthermore, the pocket-sized IP42 certified device passed the 1.5 m drop test which allows workers to roam freely about their workspaces without worries.

Versatile Symbology Support

With optional linear imager, laser and 2D imager, the 1600 series can sufficiently retrieve 1D barcode data up to 3 mil resolution. Additionally, the 1600 series ensures hospitals, pharmacies, clinics and laboratories are ready to meet the growing adoption of 2D barcodes on the product packaging. CipherLab 1600 series is also ideal for scanning patient identification bracelets and medication labels. It frees healthcare professionals from paperwork, allowing them to provide higher-quality care to patients.


Smaller and lighter than a mobile phone, the 1600 series can be easily fit in your pocket and carried around for required tasks wherever it takes. The 1600 series is built to meet the needs in healthcare, field sales and field service with strong mobility requirement. Optional Bluetooth® connectivity allows instant data acquisition to a Bluetooth® compatible PDA, laptop, PC or any other Bluetooth®-enabled devices. With a choice of linear imager, laser or 2D imager, your business needs will be met in a wide range of applications.

Optimum Storage Capacity and Reliable Data Transmission

The 1600 series can hold over 240,000 scans* in batch mode when used as a memory scanner, allowing workers to complete the maximum number of tasks without interruption. Besides, the scanners also have buffer memory up to 10 KB for up to 600 scans* ensuring no data is lost if a worker is out of Bluetooth® working range. Once the worker is back in range, information is automatically uploaded to the back-end system.

*The calculation is based on EAN13 barcode

Long Lasting Performance, Optimal Productivity

The 1600 series allows employees optimal productivity by providing long working hours for all-day data collection on either replaceable AAA batteries, or rechargeable Li-ion batteries. The less the time is wasted on frequent recharging, the more the human resource can be released to serve more patients.

Instant Pairing via Bluetooth®

Paired with the CipherLab 3610 Bluetooth® transponder, the 1600 series allows real-time data transmission to laptop, computer, or tablet. Having an extended Bluetooth® working range of up to 20 meters gives users more flexibility, caregivers, for example, can scan patients’ wristbands without pushing around a medical cart.

Time Stamp – Keeping Track for Data Analysis

Time Stamp is an excellent tracking function that associates all of the barcode reads with the exact date and time. Its accurate time keeping makes efficient data analysis effortless. You can now evaluate the time that a worker is needed to finish a round of data collection.

Higher Flexibility with Extensive Software Support

ScanMaster – Custom Configure Scanners at No Additional Cost

The ScanMaster software offers a comprehensive solution to configure scanners, edit format and symbol types, and much more. It’s easy to use and set up through the standard Windows® interface. All generated settings can be saved and printed out as barcodes to share with other users, so other users can scan to configure their scanners.

CipherConnect – Work Smarter Utilizing PDAs and Smartphones

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).*

Smart Solution with Immediate Payoffs

Simplifying and streamlining with CipherLab 1600 series scanners

Hong Kong’s historic Tung Wah Hospital adopts CipherLab 1600 series scanners to more efficiently deal with fixed assets.

After expanding to nearly 700 beds, it was clear to Tung Wah Hospital administration that they needed an efficient way to inventory fixed assets. With the decision to deploy CipherLab 1600 series Bluetooth® scanners paired with laptops and PCs, the hospital has seen an enormous reduction in labor and cost associated with asset management.
Smaller and lighter than a mobile phone, the 1600 series can be easily fit in your pocket and carried around for required tasks wherever it takes. The 1600 series is built to meet the needs in healthcare, field sales and field service with strong mobility requirement. Optional Bluetooth® connectivity allows instant data acquisition to a Bluetooth® compatible PDA, laptop, PC or any other Bluetooth-enabled devices. With a choice of linear imager, laser or 2D imager, your business needs will be met in a wide range of applications.

**Simple. Powerful. Portable.**

**Maximum Mobility and Durability in Pocket-size**
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(For 1662 / 1663 / 1664)

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

**Optimise Storage Capacity and Reliable Data Transmission**

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1600 series
Pocket-sized Scanner

- Designed for healthcare, field sales and service environments
- Bluetooth® communication
- Pocket-sized form factor
- Extreme lightweight

Barcodes supported

1D: All major codes *1

2D: PDF417, MicroPDF417, Composite, RSS, Japan Postal, Dutch Postal

*1: All major codes: 3D PDF417, MicroPDF417, Composite, RSS, TLD, Canadian, QR code, Japan Postal, Italian and French Pharmacodes, Australian and Australian Postal, European Codes, US PostNet, US Planet, UK Plane, Australian Plane, Japan Postal, Dutch Postal (10K)

Performance

- 100 scans / second
- 2.4 to 38 cm / 0.9 to 15 in.
- Laser scanner

RF Communication

- Bluetooth® 2.4 GHz (Version 2.1 +EDR)
- 20 m / 66 ft. line of sight

Accessibility

- 3610 Bluetooth® transponder, Micro USB cable, battery charger, protective cover

Electrical

- Operating: 20 mA / 100 mA @ 3.7 V
- Standby: 20 mA / 224 mA @ 3.7 V

Environmental

- Humidity (non-condensing): 10% to 90% / Storage: 5% to 95%
- Temperature: Operating: -10°C to 50°C / -14°F to 122°F, Storage: -20°C to 60°C / -4°F to 140°F

Configuration

- Setup option includes Windows®-based ScanMaster software

Warranty

- 1 year

*1: All of the barcodes that 1664 2D scanner can read except French Pharmacode, Plessey, and Telepen.

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