

# Minimum Requirements and Supported Hardware

 Ready For Tech Review

External Approved



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## Note

Minimum requirements are for the current release of SpeedLine, and are subject to change without notice.

## Computers (Point of Sale Stations)

**Supported Models:** For a complete list of currently supported computer models, please contact your SpeedLine Account Manager.

### Requirements

| Operating Systems     | 64-bit                                                                                                                                                                                                                                                                                                                                                                                               | 32-bit                                                                                                                                                                           |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                       | <ul style="list-style-type: none"> <li>Windows 8.1 Professional</li> <li>Windows 8.1 Embedded Industry Pro</li> <li>Windows Server 2012 or Windows 2012 Server R2<sup>‡</sup></li> <li>Windows Server 2016<sup>‡</sup></li> <li>Windows Server 2019<sup>‡</sup></li> <li>Windows 10 Professional or Enterprise (including IoT)<sup>†</sup></li> <li>Windows 11 Professional or Enterprise</li> </ul> | <ul style="list-style-type: none"> <li>Windows 8.1 Professional</li> <li>Windows 8.1 Embedded Industry Pro</li> <li>Windows 10 Professional or Enterprise<sup>†</sup></li> </ul> |
| RAM                   | 4 gigabyte (GB) (8 GB recommended)                                                                                                                                                                                                                                                                                                                                                                   | 4 gigabyte (GB)                                                                                                                                                                  |
| CPU                   | Dual core 2.0 gigahertz (GHz) or faster processor (Quad core 2.5 GHz recommended)                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                  |
| Free Hard Drive Space | 96 GB <sup>§</sup>                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                  |
| Video                 | DirectX 9 graphics device with WDDM 1.0 or higher driver; 1024 x 768, 24-bit color or higher resolution (32-bit color recommended)                                                                                                                                                                                                                                                                   |                                                                                                                                                                                  |
| Monitor               | LCD Touchscreen (ELOTouch-compatible)                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                  |
| Network               | 100/1000 Mbps RJ-45 wired connection (Gigabit RJ-45 connection recommended)                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                  |
| USB Ports             | 4 (6 ports recommended)                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                  |
| Optical Drive         | DVD-ROM drive (DVD writer/burner recommended). This is required if there is no Internet access to download software upgrades, or if the operating system needs to be reinstalled.                                                                                                                                                                                                                    |                                                                                                                                                                                  |
| Input Devices         | Keyboard and mouse recommended.                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                  |

\* SpeedWeb and Worldpay/Vantiv triPOS Direct require Windows Professional, Embedded Industry Pro, Enterprise (including IoT), Ultimate, or Server. Other Embedded versions do not meet requirements.

<sup>†</sup> The Professional or Enterprise edition of Windows 10 is required only for the Primary, Secondary, and SpeedWeb stations, or stations running Worldpay's triPOS Direct software for EMV payment card processing; Workstations without triPOS Direct can run Windows 10 Home (subject to the operating system requirements of third-party hardware and software used on the station).

<sup>‡</sup> A server operating system is required only for stores with 15 or more stations.

<sup>§</sup> Additional hard drive space may be required for third-party applications and tools, for example, security cameras.

## Card Processing

### EMV Software

| Processing Partner                     | Minimum Requirements                                                                                                                                                                                                                                                                                                                                              | Connectivity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Worldpay /Vantiv triPOS (Express)      | <p>triPOS Direct</p> <ul style="list-style-type: none"> <li>Windows 8.1 Professional, Enterprise, or Embedded Industry Pro</li> <li>Windows 10 Professional or Enterprise (including IoT)</li> <li>Windows Server 2012 or Windows 2012 Server R2</li> <li>Windows Server 2016</li> </ul> <p>Other Embedded versions like POSReady 7 do not meet requirements.</p> | <p>triPOS Direct</p> <ul style="list-style-type: none"> <li><a href="#">Broadband Internet</a> (DSL, cable or better) with Internet router required.</li> <li>Use of the Digi 6310-DX Cellular Extender Router with Plug-In Modem (see <a href="#">Modems</a>) is recommended, so that payment cards can continue to be accepted in the case of internet connection failure.</li> <li>Store &amp; Forward mode for offline processing of non-gift transactions.</li> </ul>                                                                                                                  |
|                                        | <p>triPOS Mobile (SpeedLine Pay)</p> <ul style="list-style-type: none"> <li>Apple iPhone or iPad running iOS 11 or later</li> </ul> <p>Or,</p> <ul style="list-style-type: none"> <li>Android smartphone running Android 7.0 or later</li> </ul>                                                                                                                  | <p>triPOS Mobile (SpeedLine Pay)</p> <ul style="list-style-type: none"> <li>An active built-in cellular connection with cellular data plan.*</li> <li>Alternately, if only taking payments inside of the store, a secured wireless connection that meets the requirements noted in the article SpeedLine and Wi-Fi (wireless) access (also available in the Knowledge Base on the Customer Support site - <a href="https://support.speedlinesolutions.com/Support/Knowledge-Base">https://support.speedlinesolutions.com/Support/Knowledge-Base</a>, or from SpeedLine Support).</li> </ul> |
| Worldpay /Vantiv (Datacap /MercuryPay) | <ul style="list-style-type: none"> <li>Mercury/Datacap NETePay 5.06.10 or later (free download for Worldpay/Vantiv users)</li> </ul> <p>Additional merchant card processing accounts set to support tokenization and encryption:</p> <ul style="list-style-type: none"> <li>Encrypted card present</li> <li>Encrypted card not present</li> </ul>                 | <ul style="list-style-type: none"> <li><a href="#">Broadband Internet</a> (DSL, cable or better) with Internet router recommended.</li> <li>Use of the Digi 6310-DX Cellular Extender Router with Plug-In Modem (see <a href="#">Modems</a>) is recommended, so that payment cards can continue to be accepted in the case of internet connection failure.</li> </ul>                                                                                                                                                                                                                       |
| Monetra                                | <ul style="list-style-type: none"> <li>Monetra Payment Server 8.16.2 or later</li> <li>UniTerm add-on license</li> </ul>                                                                                                                                                                                                                                          | <ul style="list-style-type: none"> <li><a href="#">Broadband Internet</a> (DSL, cable or better) with Internet router recommended.</li> <li>Use of the Digi 6310-DX Cellular Extender Router with Plug-In Modem (see <a href="#">Modems</a>) is recommended, so that payment cards can continue to be accepted in the case of internet connection failure.</li> <li><a href="#">US Robotics 56K external modem</a> with analog phone line (required if no Internet, otherwise recommended in case the Internet connection fails).</li> </ul>                                                |

\* The Wi-Fi-only version of the iPad is not supported for payments taken outside of the store. SpeedLine is not responsible for data usage charges.

### EMV Hardware

| Processing Partner | Supported Hardware | Requirements |
|--------------------|--------------------|--------------|
|--------------------|--------------------|--------------|

|                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Worldpay/Vantiv triPOS (Express)*          | <b>triPOS Direct</b> <ul style="list-style-type: none"> <li>Ingenico Lane/3000 PIN pad (USB-to-serial connection only).</li> <li>Ingenico Link/2500 PIN pad (Bluetooth-to-serial or USB-to-serial connection).</li> <li>Ingenico iPP320 PIN pad (USB-to-serial connection only).<sup>§</sup></li> </ul>                                                                                                                                                                        | <ul style="list-style-type: none"> <li>For PIN EMV or debit card processing, your card processor's PIN encryption key must be injected.</li> <li>For point-to-point (P2PE) or end-to-end encryption (E2EE), which reduces your store's PCI DSS scope, your card processor's P2PE or E2EE key must be injected.</li> <li>If ordered from SpeedLine, Ingenico PIN pads include injection of your merchant provider's PIN and P2PE/E2EE keys.</li> </ul> |
|                                            | <b>triPOS Mobile (SpeedLine Pay)</b> <ul style="list-style-type: none"> <li>bbPOS Chipper 2X BT card reader (iOS only).</li> <li>Ingenico iSMP4 mobile PIN pad (Android or iOS).<sup>§</sup></li> </ul>                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Worldpay/Vantiv triPOS (Express) Gateway*† | <b>triPOS Direct</b> <ul style="list-style-type: none"> <li>Ingenico Lane/3000 PIN pad (USB-to-serial connection only).**</li> <li>Ingenico Link/2500 PIN pad (Bluetooth-to-serial or USB-to-serial connection).**</li> <li>Ingenico iPP320 PIN pad (USB-to-serial connection only).<sup>§</sup></li> </ul> <p>** These devices are only supported for the Fiserv (formerly First Data) gateway setup.</p>                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Worldpay/Vantiv (Datacap /MercuryPay)*     | <ul style="list-style-type: none"> <li>Ingenico Lane/3000 PIN pad (USB-to-serial connection only).</li> <li>Ingenico Link/2500 PIN pad (Bluetooth-to-serial or USB-to-serial connection).</li> <li>Ingenico iPP320 PIN pad (USB-to-serial connection only).<sup>§</sup></li> <li>Verifone VX805 PIN pad (USB-to-serial connection only).</li> <li>ID Tech MiniSmart II + SecureHead card reader (optional add-on for the Touch Dynamic Quest tablet).</li> </ul>               |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Monetra                                    | <ul style="list-style-type: none"> <li>Ingenico Lane/3000 PIN pad with UPP v6.8X.04 (USB-to-serial connection only).‡</li> <li>Ingenico Link/2500 PIN pad with UPP v6.8X.04 (Bluetooth-to-serial or USB-to-serial connection).‡</li> <li>Ingenico iPP320 PIN pad with RBA v23.X.44 (minimum 14.0.6), KP4 keys, and PCI PTS v4 (USB-to-serial connection only).<sup>§</sup></li> </ul> <p>‡ Currently only supported with First Data, TSYS, Global Payments, and Heartland.</p> |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

\* If ordering EMV hardware from vendors other than SpeedLine, please inform them which Worldpay platform (Express or Datacap/MercuryPay) you will be using so that the hardware is configured correctly.

† Express Gateway allows the use of other back end payment processors: Chase Paymentech, First Data (now Fiserv), Global Payments, Heartland, and T SYS.

§ This hardware has been discontinued by the manufacturer, but is still supported by the software.

## Non-EMV Software

| Processing Partner         | Minimum Requirements                                                                                                                                                                                                               | Connectivity                                                                                                                                                                                                                                                                                                                                                      |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Worldpay /Vantiv (Express) | <p>Worldpay/Vantiv Express merchant card processing accounts set to support tokenization functionality:</p> <ul style="list-style-type: none"> <li>Card present</li> <li>Card not present</li> <li>(Optional) Ecommerce</li> </ul> | <ul style="list-style-type: none"> <li><a href="#">Broadband Internet</a> (DSL, cable or better) with Internet router required.</li> <li>Use of the Digi 6310-DX Cellular Extender Router with Plug-In Modem (see <a href="#">Modem</a>) is recommended, so that payment cards can continue to be accepted in the case of internet connection failure.</li> </ul> |

|                                                 |                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Worldpay<br>/Vantiv<br>(Datacap<br>/MercuryPay) | Worldpay/Vantiv Datacap/MercuryPay merchant card processing accounts set to support tokenization functionality: <ul style="list-style-type: none"> <li>• Card present</li> <li>• Card not present</li> <li>• (Optional) E-commerce</li> </ul> | <ul style="list-style-type: none"> <li>• <a href="#">Broadband Internet</a> (DSL, cable or better) with Internet router recommended.</li> <li>• Use of the Digi 6310-DX Cellular Extender Router with Plug-In Modem (see <a href="#">Mo dems</a>) is recommended, so that payment cards can continue to be accepted in the case of internet connection failure.</li> </ul>                                                                                                                                                                                                                                                                        |
| Monetra                                         | Monetra Payment Server 8.16.2 or later                                                                                                                                                                                                        | <ul style="list-style-type: none"> <li>• <a href="#">Broadband Internet</a> (DSL, cable or better) with Internet router recommended.</li> <li>• Use of the Digi 6310-DX Cellular Extender Router with Plug-In Modem (see <a href="#">Mo dems</a>) is recommended, so that payment cards can continue to be accepted in the case of internet connection failure.</li> <li>• <a href="#">US Robotics 56K external modem</a> with analog phone line (required if no Internet, otherwise recommended in case the Internet connection fails).</li> <li>• Store &amp; Forward mode for offline processing of non-EMV, non-gift transactions.</li> </ul> |

## Non-EMV Magnetic Card Readers

| Supported Hardware                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• Any OPOS-compatible card reader</li> <li>• Most USB 2 or 3 track, unencrypted, keyboard wedge emulation card readers</li> <li>• MagTek 2- or 3-track reader (USB or unencrypted, USB or keyboard wedge emulation)</li> <li>• ID Innovations VMU-B2-6 2- or 3-track reader</li> <li>• ELO E177037 USB card reader (for attachment to ELOTouch 1515L touchscreens)</li> <li>• Posiflex card readers and fingerprint sensor/card reader combos for Posiflex KS and Posiflex XT all-in-one computers</li> </ul> |

## Paytronix Loyalty

| Supported Software                                      | Connectivity                                                                            |
|---------------------------------------------------------|-----------------------------------------------------------------------------------------|
| Paytronix Controller (PXC) 10.2 (provided by Paytronix) | <a href="#">Broadband Internet</a> (DSL, cable or better) with internet router required |

## Punchh Loyalty

| Minimum Requirements                                                          | Connectivity                                                                            |
|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| A <a href="#">supported printer</a> that allows bar code printing is required | <a href="#">Broadband Internet</a> (DSL, cable or better) with internet router required |

## Anti-Virus

| Supported Software                                                                                                |
|-------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• Microsoft Windows Defender (included in Windows 8 and later).</li> </ul> |

## Bar Code Scanners

| Minimum Requirements                                                       | Supported Hardware                                                                                                                                                          |
|----------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| An HID-compliant USB bar code scanner that does not require device drivers | <ul style="list-style-type: none"> <li>• 2D &amp; 1D - Data Logic QD2430 2D bar code scanner</li> <li>• 1D only - HandHeld Products 3800 series bar code readers</li> </ul> |

## Caller ID

| Minimum Requirements | Supported Hardware |
|----------------------|--------------------|
|----------------------|--------------------|

|                                   |                                                                                                                                                                                                                                                                     |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Available Serial or Ethernet port | <ul style="list-style-type: none"> <li>• CallerID.com Whozz Calling? Deluxe, 2, 4 or 8 line (Ethernet or Serial)*</li> <li>• CallerID.com Vertex Caller ID for VoIP</li> </ul> <p>* This model does not support digital phone lines; analog lines are required.</p> |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Cash Drawers

| Minimum Requirements                                                       | Supported Hardware                                                                                                                                                                                                                                                                                                                                                                |
|----------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Available parallel, USB or serial (COM) port, or available printer CR port | <ul style="list-style-type: none"> <li>• Any OPOS-compatible cash drawer</li> <li>• MS Cashdrawers EP-125 and CF-405 (Serial, Parallel, USB or printer connected)</li> <li>• Posiflex CR3117, CR4000 or CR6000 series (Serial, USB or printer connected)</li> <li>• Touch Dynamic CD-BL-2000 (Epson printer connected)</li> <li>• CRS 460 Model 23 (printer connected)</li> </ul> |

## Customer Displays

### Text Displays

| Minimum Requirements               | Supported Hardware                                                                                                                                                                                                                                                                            |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Available USB or Serial (COM) port | <ul style="list-style-type: none"> <li>• Any OPOS-compatible text display</li> <li>• Posiflex PD2608 in Epson Command Mode (USB, designed for Posiflex XT all-in-one computers)</li> <li>• PartnerTech CD7220 in ESC/POS mode (Serial)</li> <li>• Touch Dynamic 2 X 20, 12", or 8"</li> </ul> |

### Drive-Thru Displays

| Supported Hardware                                                                                             |
|----------------------------------------------------------------------------------------------------------------|
| Delphi Display Systems Order Confirmation System 9000 Series (also known as C-series) with network connection. |

### Image Displays

| Minimum Requirement                                                         | Supported Hardware                                                                                                                                                                                                                          |
|-----------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Available port on the computer that corresponds to the port on the monitor. | <ul style="list-style-type: none"> <li>• Posiflex Rear LCD displays designed for Posiflex KS and XT series all-in-one computers.</li> <li>• Any second monitor of 12" or larger size with VGA, HDMI, or Display Port connection.</li> </ul> |

## Data Backup (Off-site)

| Minimum Requirements                                       | Notes                                                                                                                               |
|------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| CD Burner, USB flash drive, or external backup hard drive. | Storage space required will vary based on your business volume and how long you have SpeedLine, but in general 32 GB is sufficient. |

## Delivery Services

### DoorDash Drive

| Minimum Requirement  |
|----------------------|
| Windows 8.1 or later |

## Fingerprint Sensors

| Minimum Requirements                                                                                                      | Supported Hardware                                                                                                                                                                                                                                            |
|---------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>Available USB port</li> <li>Digital Persona U.are.U drivers version 2.2</li> </ul> | <ul style="list-style-type: none"> <li>Digital Persona U.are.U 2000 and 4000 series</li> <li>Posiflex finger sensors and sensor/card reader combos for Posiflex XT all-in-one computers</li> <li>Touch Dynamic Quest III Tablet Fingerprint Sensor</li> </ul> |

## Kitchen Monitors

| Minimum Requirements                                                                                                                                                                                                                                                 | Supported Software and Hardware                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>Monitors with: <ul style="list-style-type: none"> <li>VGA input</li> <li>VESA 75 mm or 100 mm wall mount option</li> <li>A weight of less than 15 lb.</li> </ul> </li> <li>QSR video controllers (one per monitor)</li> </ul> | <p>QSR ConnectSmart Kitchen (CSK) versions 6 through 2021 with:</p> <ul style="list-style-type: none"> <li>DE-4100 eXceed video controller.</li> <li>For keypad control: KP-7500 keypads (bump bars).</li> <li>Or, for touchscreen control: ELO touchscreen monitors using the AccuTouch or basic IntelliTouch interface. <b>Note:</b> ELO IntelliTouch Plus, iTouch, and IntelliTouch Pro interfaces are not supported.</li> </ul> <p><b>Note:</b> For table service functions such as Delayed Routing and Coursing, the Table Service Pack add-on to CSK is required.</p> <p>QSR Kitchen Display System (KDS) versions 6 through 16 with:</p> <ul style="list-style-type: none"> <li>QSR ePic video controller DE-4000 or later.</li> <li>KP3000/4000 keypads (bump bars).</li> </ul> |

## Mapping

| Supported Software | Minimum Requirements                                                                                                                                                                                                                                                                               |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SpeedLine LiveMaps | <ul style="list-style-type: none"> <li>Bing Maps data service subscription (billed by SpeedLine)</li> <li><a href="#">Broadband Internet</a> (DSL, cable or better)</li> <li>Microsoft Internet Explorer 11.0</li> <li>Windows 8.1 or later</li> <li>SpeedLine 7.2 Release 602 or later</li> </ul> |

## Modems

| Supported Hardware                                                                                         | Notes                                                                                                                                                                                                                                                                                                                                             |
|------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>US Robotics External 56K USB or Serial modem</li> </ul>             | <ul style="list-style-type: none"> <li>Required only if processing credit cards via phone line with Monetra.</li> </ul>                                                                                                                                                                                                                           |
| <ul style="list-style-type: none"> <li>Digi 6310-DX Cellular Extender Router with Plug-In Modem</li> </ul> | <ul style="list-style-type: none"> <li>Backup modem, used in the case of internet connection failure.</li> <li>Requires a cellular data plan.*</li> <li>Supported configuration is use of the Digi modem in conjunction with a SonicWall SOHO or SOHO 250 router running SonicOS 5.6 or higher. See <a href="#">Networking</a>, below.</li> </ul> |

\* SpeedLine is not responsible for data usage charges.

## Networking

| Minimum Requirements - Wired Networks | Supported Hardware - Wired Networks |
|---------------------------------------|-------------------------------------|
|---------------------------------------|-------------------------------------|

| <ul style="list-style-type: none"> <li>• 100/1000 Mbps hub/switch</li> <li>• RJ-45 (Cat5) cabling (Gigabit-certified RJ-45 Cat5 cabling recommended)</li> <li>• Any unmanaged switch 100 Megabits or faster (1 Gigabit switch recommended)</li> </ul>                         | <ul style="list-style-type: none"> <li>• D-Link 24 Plus - 24 port switch</li> <li>• D-Link DSS 16 Plus - 16 port switch</li> <li>• D-Link DES 1024D 24 port switch</li> <li>• SonicWALL SOHO and SOHO 250 Network Security Appliances</li> </ul> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Minimum Requirements - Wireless Networks                                                                                                                                                                                                                                      | Supported Hardware - Wireless Networks                                                                                                                                                                                                           |
| <ul style="list-style-type: none"> <li>• Wi-Fi versions 1 to 6 (802.11b/g/n/ac/ax) with WPA2 security and encryption</li> </ul> <p><b>Required for PCI compliance (Rule 1.2.3):</b></p> <p>The wireless LAN must be separated from the wired LAN by a perimeter firewall.</p> | <ul style="list-style-type: none"> <li>• SonicWALL TZ270, SOHO and SOHO 250 Network Security Appliances</li> <li>• Ubiquiti UniFi wireless access points</li> </ul>                                                                              |

## Online Ordering

### SpeedDine

| Minimum Requirements                                                                                                                                                                                                                                                                                                                                                                                                                                 | Required for PCI Compliance                                                                                                                                                                                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• Broadband Internet (DSL, cable, or better with minimum 25 Mbps down and 3 Mbps up)</li> <li>• 100/1000 Mbps RJ-45 wired connection (Gigabit RJ-45 connection recommended)</li> <li>• The latest version of SpeedLine, or at least 7.3 Release 305</li> <li>• An active SpeedLine Support subscription</li> <li>• The LiveMaps delivery mapping add-on is required for stores that offer delivery</li> </ul> | <ul style="list-style-type: none"> <li>• SpeedDine is out of scope for PCI DSS (the Payment Card Industry Data Security Standard), as it does not use any open ports or incoming internet connections.</li> </ul> |

### 3rd-Party Provider

| Minimum Requirements                                                                                                                                                                      | Required for PCI Compliance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• SpeedLine Connect capable web host</li> <li>• <a href="#">Broadband Internet</a> (DSL, cable, or better)</li> <li>• Static IP address</li> </ul> | <ul style="list-style-type: none"> <li>• The Cardholder Data Environment (CDE) must be separated from the network used to receive orders (e.g., the Internet) using either a SonicWALL security appliance configured for IP address whitelisting, a VPN, or a DMZ.</li> <li>• If using a DMZ, please see the article "<a href="#">Minimum Requirements for the Connect-SpeedWeb DMZ Computer</a>" for DMZ computer requirements (also available in the Knowledge Base on the Customer Support site - <a href="https://support.speedlinesolutions.com/Support/Knowledge-Base">https://support.speedlinesolutions.com/Support/Knowledge-Base</a>, or from SpeedLine Support)..</li> </ul> |

## Power Protection & Battery Backup

| Recommended Hardware                              |
|---------------------------------------------------|
| APC uninterruptible power supply, 350VA or higher |

## Printers

### Bar Code Printers

| Supported Hardware |
|--------------------|
|--------------------|

- Epson TM-T88
- Epson TM-T20

## Label Printers

### Supported Hardware

- Bixolon XD5-40 Direct Thermal
- Bixolon SLP-DX420EG (recommended)
- Bixolon SRP-770IIE
- Cognitive Blaster Advantage LX
- Zebra LP 2844

## Ticket Printers

### Supported Hardware

- Epson TMU-200B (Serial), TM-U220, and TM-U230 (Serial, USB and Ethernet)
- Epson TM-T20 Thermal (USB and Ethernet)
- Epson TM-T88II (Serial), TM-T88III, TM-T88IV, TM-T88V, and TM-T88VI (Serial, USB and Ethernet)
- Epson TM-P80 Mobile printer (USB and Bluetooth)
- Bixolon SRP-350 (Serial, USB and Ethernet)
- Bixolon SRP-275 (Serial, USB and Ethernet)
- Bixolon SRP-500 (Serial, USB and Ethernet)
- Touch Dynamic PR IM (Serial; Ethernet if router-connected)

## Report Printers

### Minimum Requirements

- Any printer compatible with a [supported Windows operating system](#).

## Reporting

### SpeedLine Cloud Reporting & Analytics

#### Minimum Requirements

At the store:

- Internet Explorer 11

Outside of the store:

- Any of the following internet browsers:
  - Edge (only Chromium-based, version 79 and later)
  - Google Chrome
  - Firefox
  - Internet Explorer 11
  - Safari version 10 and higher

### SpeedLink Enterprise

#### Supported Software

#### Minimum Requirements

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Microsoft SQL Server Versions:</b></p> <ul style="list-style-type: none"> <li>• 2019 Standard</li> <li>• 2017 Standard</li> <li>• 2016 Standard</li> <li>• 2008 Standard</li> <li>• 2014 Standard</li> <li>• 2012 Standard</li> <li>• Express (suitable for 10 or fewer locations only)</li> </ul> <p><b>Supported Windows Operating Systems:</b></p> <ul style="list-style-type: none"> <li>• Windows Server 2019 Datacenter or Standard</li> <li>• Windows Server 2016 Datacenter or Standard</li> <li>• Windows Server 2012 R2 Datacenter or Standard</li> <li>• Windows Server 2012 Datacenter or Standard</li> </ul> | <ul style="list-style-type: none"> <li>• All hardware must meet or exceed the operating system specifications for SQL Server (or SQL Express Server, if its database size limitations are not an issue) given on the Microsoft Web site.</li> <li>• Also see <a href="#">Minimum Requirements for a SpeedLink Server</a> article (also available in the Knowledge Base on the Customer Support site - <a href="https://support.speedlinesolutions.com/Support/Knowledge-Base">https://support.speedlinesolutions.com/Support/Knowledge-Base</a>, or from SpeedLine Support).</li> <li>• <a href="#">Broadband Internet</a> (DSL, cable or better).</li> </ul> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## SpeedWeb

| Minimum Requirements                                                                                                                                                                                                                                                                                                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• Windows 8.1 Professional, Enterprise, or Embedded Industry Pro</li> <li>• Windows 10 Professional or Enterprise (including IoT)</li> <li>• Windows 11 Professional or Enterprise</li> <li>• Windows Server 2012 or Windows 2012 Server R2</li> <li>• Windows Server 2016</li> </ul> |

## Tablets

| Minimum Requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Supported Hardware                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>A secured wireless connection that meets the requirements noted in the article <a href="#">SpeedLine and Wi-Fi (wireless) access</a> (also available in the Knowledge Base on the Customer Support site - <a href="https://support.speedlinesolutions.com/Support/Knowledge-Base">https://support.speedlinesolutions.com/Support/Knowledge-Base</a>, or from SpeedLine Support).</p> <p><b>Note:</b> Because they are not as powerful as desktops, have less storage, and are more prone to theft, tablets are not recommended for use as primary or secondary stations.</p> | <ul style="list-style-type: none"> <li>• Window Surface Go 2 tablet with M3 CPU, 8 GB RAM, 128 GB SSD, and Windows 10 Pro. (Recommended model.)</li> <li>• Surface Pro 7 tablets with i3 or i5 CPU, 8 GB RAM, 128 GB SSD, and Windows 10 Pro. (Recommended model.)</li> <li>• Any tablet that meets the minimum operating system, RAM, and CPU requirements listed in the <a href="#">Computers</a> section above, and also meets the IEEE 802.11ac Wi-Fi standard.</li> </ul> <p><b>Note:</b> If the tablet resolution is not 1024 x 768 pixels, Terminal will not display full-screen.</p> |
| Additional Requirements for Accepting Card Payments with Tablets                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Additional Hardware for Accepting Card Payments with Tablets                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <ul style="list-style-type: none"> <li>• For Quest tablets, SpeedLine 7.3 Release 204 or later, and credit card processing through the Worldpay Datacap/MercuryPay platform.</li> <li>• For other tablets, SpeedLine 7.3 R400 or later, and card processing through: <ul style="list-style-type: none"> <li>• Worldpay Express Core.</li> <li>• Worldpay MercuryPay.</li> <li>• Monetra Payment System (First Data, TSYS, Global Payments, and Heartland only at this time).</li> </ul> </li> </ul>                                                                             | <ul style="list-style-type: none"> <li>• For the Touch Dynamic Quest III, or Quest II, 10-inch tablet with Windows operating system: built-in IDTech EMV card reader.</li> <li>• For other tablets, an Ingenico Link/2500 mobile EMV PIN pad (Bluetooth-to-serial or USB-to-serial connection).</li> <li>• Optional: Epson TM-P80 Mobile printer for Bluetooth receipt printing.</li> </ul>                                                                                                                                                                                                  |

## Televisions

### Minimum Requirements

- A large-screen TV with VGA input (if connecting to a Posiflex All-in-One computer) or HDMI input (if connecting to a Dell or other desktop PC).
- 720p resolution (1080p recommended).
- A computer capable of output to a TV. Older Dell computers will need an add-on video card with HDMI output.

## Touchscreens

| Minimum Requirements  | Supported Hardware                                                              |
|-----------------------|---------------------------------------------------------------------------------|
| 1024 x 768 Resolution | <ul style="list-style-type: none"><li>• Most ELO touchscreen monitors</li></ul> |



### Caution

While the PCI compliance information in this article is correct to the best of our knowledge, SpeedLine is not a Qualified Security Assessor (QSA). Partner with a QSA to ensure your business complies with PCI DSS.

## Contact Us

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**Request Support:** <https://www.speedlinesolutions.com/support-call-request>

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