NX-7510E WiNG Express Manager
Installation Guide
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1 Introduction

The NX-7510E WiNG Express Manager provides the power of award winning WiNG 5 architecture in a cost-effective, multi-site, Enterprise class WLAN management platform, without compromising performance and scale. The NX-7510E can support WLAN networks that can scale up to 1024 Express Access Points, ideal for small-to-mid sized businesses. The NX-7510E is pre-installed with 64 Express Access Point licenses for immediate operation.

The NX-7510E provides a state of the art user interface allowing administrators to easily configure sites with minimal steps. An intuitive auto-provisioning policy supports trouble-free multi-site deployment. The built-in analytics present important information about the Express Access Points, radios, WLANs and all devices connected to the WLANs displayed on easy to understand screens to monitor and manage every aspect of the wireless network.

1.1 Document Conventions

The following graphical alerts are used in this document to indicate notable situations:

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>✔️</td>
<td><strong>NOTE</strong> Tips, hints, or special requirements that you should take note of.</td>
</tr>
<tr>
<td>⚠️</td>
<td><strong>CAUTION</strong> Care is required. Disregarding a caution can result in data loss or equipment malfunction.</td>
</tr>
<tr>
<td>⚠️</td>
<td><strong>WARNING!</strong> Indicates a condition or procedure that could result in personal injury or equipment damage.</td>
</tr>
</tbody>
</table>

1.2 Warnings

- Read all installation instructions and site survey reports, and verify correct equipment installation before connecting the appliance to its power source.
- Remove jewelry and watches before installing this equipment.
- Verify the unit is grounded before connecting it to the power source.
- Verify any device connected to this unit is properly wired and grounded.
- Connect all power cords to a properly wired and grounded electrical circuit.
- Verify the electrical circuits have appropriate overload protection.
- Attach only approved power cords to the device.
- Verify the power connector and socket are accessible at all times during the operation of the equipment.
• Do not install this equipment or work with its power circuits during thunderstorms or other weather conditions that could cause a power surge.
• Verify there is adequate ventilation around the device, and ambient temperatures meet equipment operation specifications.

1.3 Site Preparation
• Consult your site survey and network analysis reports to determine specific equipment placement, power drops, and so on.
• Assign installation responsibility to the appropriate personnel.
• Identify and document where all installed components are located.
• Provide a sufficient number of power drops for your equipment.
• Ensure adequate, dust-free ventilation to all installed equipment.
• Identify and prepare Ethernet and console port connections.
• Verify cable lengths are within the maximum allowable distances for optimal signal transmission.

1.4 Package Contents
A NX-7510E ships with the following:
• NX-7510E WiNG Express Manager
• Console cable
• Rack mount brackets
• NX-7510E WiNG Express Manager Installation Guide (this document)

1.4.1 Additional Recommended Equipment
• Standard, grounded 100-240 VAC 50/60 Hz connection
• Standard 19-inch 1U height equipment rack
• Uninterruptible Power Supply (UPS)

**NOTE** The NX-7510E is initially configured with a single AC power supply. Installation of an Uninterruptible Power Supply (UPS) is recommended if a second AC power supply is installed.
1.5 Cautionary Statements

**CAUTION** There are no user-serviceable components inside the NX-7510E. Opening the chassis will void the warranty.

**CAUTION** BIOS settings on the NX-7510E should not be changed. Changing any settings in the BIOS will void the warranty on the NX-7510E.

**CAUTION** To prevent the NX-7510E from overheating, never install in an enclosed area not properly ventilated or cooled. For proper airflow, keep the front and back sides of NX-7510E clear of obstructions and away from the exhaust of other equipment.

**CAUTION** The recommended operating temperature is 32°F to 104°F/0°C to 40°C. Installation in a closed or multi-rack assembly may raise the immediate ambient temperature above the average room temperature. Exercise due caution.

**CAUTION** Ensure the electrical circuit through which the NX-7510E is powered can safely accommodate a 300 Watt power supply.

**CAUTION** It is recommended you connect the NX-7510E to an *Uninterruptible Power Supply (UPS)*. There are instances in which the system software could become corrupt and un-recoverable in the event of power loss, for example, during a system upgrade, database backup or database restore operation.
1.6 Safety Instructions for Rack Mount Installations

- Rack Mount Brackets - Do not lift the NX-7510E using the rack mount brackets.
- Rack Mount Rails - Use only industry-standard mounting kits when installing the NX-7510E, as improper mounting may result in hardware failure and hazardous conditions. It is recommended to use the mounting rails included with the NX-7510E.
- Elevated Operating Ambient - If installing the NX-7510E in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than the room ambient temperature. Consideration should be given to installing the appliance in an environment compatible with the maximum ambient temperature (Tma) specified by the manufacturer.
- Reduced Air Flow - Installation of the NX-7510E in a rack should be such that the amount of air flow required for safe operation is not compromised.
- Mechanical Loading - Mounting the NX-7510E in a rack should be such that a hazardous condition is not achieved due to uneven mechanical loading.
- Circuit Overloading - Consideration should be given when connecting the NX-7510E to the supply circuit so protection is provided to the NX-7510E. Appropriate consideration of the equipment nameplate ratings should be used when addressing this concern.
- Reliable Earthing - Reliable earthing of the rack mounted NX-7510E should be maintained.
- Particular attention should be given to supply connections other than direct connections to the branch circuit (e.g., use of power strips).

1.7 NX-7510E Power Supplies

The NX-7510E is initially configured with a single AC power supply. Installation of an Uninterruptible Power Supply (UPS) is recommended if a second power supply is installed. To replace a failed power supply or install a new power supply, see NX-7510E Power Supply Installation on page 11.
1.8 Power Supply Status LEDs

Each NX-7510E power supply module has a single bi-color LED to indicate power supply status. The LED is visible on the rear panel of each installed power supply.

The LED functionality for the power supply is listed in the following table:

<table>
<thead>
<tr>
<th>State</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Off</td>
<td>No power to all power supplies</td>
</tr>
<tr>
<td>Flashing red</td>
<td>No input power</td>
</tr>
<tr>
<td>Flashing blue or green</td>
<td>Power present. Only standby output on.</td>
</tr>
<tr>
<td>Blue or green</td>
<td>Power supply on. Normal operation.</td>
</tr>
<tr>
<td>Red</td>
<td>Power supply failure</td>
</tr>
<tr>
<td>Flashing red/blue or Flashing red/green</td>
<td>Power supply warning. Reaching end of life or exceeding limits.</td>
</tr>
</tbody>
</table>

1.9 Power Protection

- If possible, use a circuit dedicated to data processing equipment. Commercial electrical contractors are familiar with wiring for data processing equipment and can help with the load balancing of these circuits.

- Install surge protection. Be sure to use a surge protection device between the electricity source and the NX-7510E.

- Install an Uninterruptible Power Supply (UPS). A UPS provides continuous power during a power outage. Some UPS devices have integral surge protection. UPS equipment requires periodic maintenance to ensure reliability. A UPS of the proper capacity for the data processing equipment must be purchased.
2 Hardware Installation

This section describes the hardware installation for the NX-7510E.

The following figure represents the front of the NX-7510E:

![NX-7510E Front View](image)

To prepare for the installation:

1. Match the model number on the purchase order with the model numbers in the packing list and on the NX-7510E.
2. Verify the contents of the box include the intended NX-7510E, and the included hardware matches the package contents.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NX-7510E-100R0-WR</td>
<td>NX-7510E Express Manager Platform with 64 Express Licenses</td>
</tr>
</tbody>
</table>
2.1 Installing the NX-7510E WiNG Express Manager

1. Complete the instructions supplied with the rail kit to mount the NX-7510E in an equipment rack.
2. Connect the power cords for all power supplies.
   
   The following figure represents the back of the NX-7510E with a single AC power supply:

   ![NX-7510E Back View](image)

3. Connect the Ethernet cables and connect the NX-7510E to the network.
4. Using a standard RS-232 console cable, connect the serial port on the NX-7510E to a serial port on a separate computer (the “configuration computer”).
5. On the configuration computer, configure a terminal emulation program as follows:

<table>
<thead>
<tr>
<th>Terminal Type</th>
<th>VT 100</th>
</tr>
</thead>
<tbody>
<tr>
<td>Port</td>
<td>COM port</td>
</tr>
<tr>
<td>Terminal Settings</td>
<td>19200bps transfer rate</td>
</tr>
</tbody>
</table>

6. Apply power to the NX-7510E.
7. When the prompt is displayed in the console window, login to the Command Line Interface (CLI) using username `admin` and password `admin123`.
8. When prompted, enter a new password, then enter it again to confirm it.
2.2   NX-7510E Power Supply Installation

**WARNING!** Power down the NX-7510E and disconnect all power cords prior to installing or replacing a power supply.

**CAUTION** Ensure the connectors on the back of the power supply do not come into contact with your hands or the packing material as you unpack the power supply. Avoid damaging the connectors as you insert the power supply into the NX-7510E.

To remove a power supply and install a replacement power supply:
1. Remove the power cord from the power supply to be replaced.
2. Push the locking latch to the right and remove the power supply.
3. Unpack the power supply module and carefully insert it into the NX-7510E.
4. Press the locking latch to lock the power supply in place.
5. Plug the power cord into the power supply.
6. Verify the power supply light is illuminated and the power supply is operating properly.

To install an additional power supply for a NX-7510E:
1. Unpack the power supply module and carefully insert it into the NX-7510E.
2. When installing a second power supply in a NX-7510E, remove the blank cover from the back.
3. Press the locking latch to lock the power supply in place.
4. Plug the power cord into the power supply.
5. Verify the power supply light is illuminated and the power supply is operating properly.

**NOTE** When two power supplies are installed, both power supplies should be properly connected to a power source and powered up. An audible beep and display of a red LED indicates a power supply is not properly connected to a power source.
3 Basic System Configuration

To set a basic configuration and access WiNG Express management functions:

1. Power up the device and connect an Ethernet cable to one on the LAN ports.
2. The WiNG Express Manager UI is supported on popular browsers like Safari, Opera, Firefox, IE10 (and later), and Chrome. It is not supported on mobile or tablet browsers. Open a browser and enter the default IP address of 192.168.0.1.

   The login screen displays:

   ![Login Screen]

3. Enter the default username admin in the Username field.
4. Enter the default password admin123 in the Password field.
5. Select the Country Code specific to this deployment location.

   **NOTE** The country code must be set at the deployment site

Selecting the correct country is central to legal operation. Each country has its own regulatory restrictions concerning electromagnetic emissions and the maximum RF signal strength that can be transmitted.

SKU's only support certain countries (for example: a US SKU only includes US, Guam, Puerto Rico, American Samoa, US Virgin Islands and Mariana Island).
The device automatically displays a Dashboard where users can assess network health and conduct a diagnostic review of network performance.

**NOTE** At some point in the initial setup, the default password should be changed to enhance the security of the WiNG Express Manager network. Refer to the Configuration > Management screen to change the default password to a more secure password.

6. Expand the Configuration menu item and select Basic.

### Basic Configuration Settings

<table>
<thead>
<tr>
<th>Setting</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>System Name:*</td>
<td>nx7500-6C8F68</td>
</tr>
<tr>
<td>Country Name:*</td>
<td>Singapore-sg</td>
</tr>
<tr>
<td>Timezone</td>
<td>Asia/Calcutta</td>
</tr>
<tr>
<td>Date &amp; Time:</td>
<td>12/11/2014 12:00 AM</td>
</tr>
<tr>
<td>NTP Server:</td>
<td>129.6.15.28</td>
</tr>
<tr>
<td>Default Gateway:</td>
<td>70.1.1.1</td>
</tr>
</tbody>
</table>

7. Set the following Basic Configuration Settings:
   - **System Name** - Provide a System Name used as the NX-7510E's network identifier. The System Name is a required parameter.
   - **Country Name** - If the Country Code was not set when the device was initially powered on, set the country now to ensure legal operation. The system's wireless capabilities are disabled until the required country code is set.
   - **Timezone** - Use the drop-down menu to specify the geographic timezone where the system is deployed. Different geographic time zones have daylight savings clock adjustments, so specifying the timezone correctly is important to account for geographic time changes.
   - **Date & Time** - Set the date, hour and minute for the current system time. Specify whether the current time is AM or PM.
• **NTP Server** - Optionally provide the IP address of a NTP server resource. *Network Time Protocol* (NTP) manages time and/or network clock synchronization within the network. NTP is a client/server implementation. The NX-7510E (a NTP client) periodically synchronizes its clock with a master clock (a NTP server). For example, an NX-7510E resets its clock to 07:04:59 upon reading a time of 07:04:59 from its designated NTP server.

• **Default Gateway** - Optionally specify the default gateway IP address used to communicate with the system's main router.

8. The **Firmware** section displays the current and alternate firmware versions, the date which the most recent firmware was installed and the last upgrade status. In the URL field, enter the complete path to the firmware file. Alternately click **Advanced** and provide information to accurately define the location of the target firmware file.

<table>
<thead>
<tr>
<th>Current Boot (version)</th>
<th>primary (5.7.0.0-045R)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alternate Boot (version)</td>
<td>secondary (5.7.0.0-044R)</td>
</tr>
<tr>
<td>Install Date</td>
<td>12/10/2014</td>
</tr>
<tr>
<td>Last Upgrade Status</td>
<td>✔</td>
</tr>
<tr>
<td>Last Upgrade Message</td>
<td>Successful</td>
</tr>
</tbody>
</table>

**Next boot:**  
- Primary  
- Secondary

**Protocol:**  
- FTP  
- TFTP  
- HTTP

**Port:** 21  
**Basic**

**Host:** . . .  
- IP Address  
- Hostname

**Username:**  

**Password:**  
- Show

**Path:**  

| Firmware Upgrade | Reload |
9. The **Licenses** section displays the number of AP Licenses, which is the number of APs available for adoption under the restrictions of the license. The number of licenses currently in use is displayed below that.

<table>
<thead>
<tr>
<th>Licenses</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>AAP Licenses</td>
<td>1024</td>
</tr>
<tr>
<td>License-in-use</td>
<td>7</td>
</tr>
</tbody>
</table>

AAP License: b2334afc7ebe427ebf094f
10. Refer to the following Cluster configuration information:

A cluster is a set of wireless devices working collectively to provide redundancy and load sharing amongst its members.

Cluster

- **State:** Displays a status indicating whether the cluster is running or disabled.
- **Mode:** A cluster member can be in either an *Active* or *Standby* mode. All active members can adopt Access Point radios. Standby members only adopt Access Points when an active member has failed, or sees an Access Point not adopted. The default cluster mode is Active.
- **Name:** Define a name for the cluster unique to its configuration. The name cannot exceed 64 characters.
- **Master Priority:** Set a priority from 1 - 255, with the higher value being given higher priority. This configuration is the device’s priority to become cluster master. In a cluster environment, one member is elected as cluster master. This configuration is the device’s priority to become cluster master. The default value is 128.
- **Member VLAN:** Optionally enable a member VLAN, then use the spinner control to designate the VLAN where cluster members are reachable. Specify a VLAN from 1 - 4094.
- **Member IP:** Specify the IP addresses of the VLAN’s cluster members using the IP Address table.
- **Join Cluster:** Click the *Join Cluster* button to add the device to the cluster configured in the fields above.
11. To configure Static Routes click the **Add** button and specify the IP addresses and network masks in the **Network Address** column. Then provide the **Gateway** used to route traffic.

12. Select **Apply** to save the basic system configuration settings.
4 Specifications

4.1 Physical Specifications

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>1U, rack mountable</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>17.2 in W x 1.76 in H x 21.28 in D</td>
</tr>
<tr>
<td></td>
<td>430 mm W x 42 mm H x 532 mm D</td>
</tr>
<tr>
<td>Weight (with 1 power supply)</td>
<td>19 lb./8.62 kg</td>
</tr>
</tbody>
</table>

4.2 Environmental Specifications

| Operating Temperature | 32°F to 104°F/0°C to 40°C |
| Storage Temperature   | -4°F to 10°F/-20°C to 75°C |
| Operating Humidity    | 5% to 85% at 104°F/40°C |
| Storage Humidity      | 5% to 95% RH (non-condensing) |

4.3 Power Specifications

| Power Supply | 300 Watts, 100-240V AC PSU @ 50Hz-60Hz |
| Typical Power Consumption | 110 Watts |
5 Regulatory Information

This guide applies to NX-7510 model devices.

All Zebra devices are designed to be compliant with rules and regulations in locations they are sold and will be labeled as required.

Local language translations are available at the following website: www.zebra.com/support.

Any changes or modifications to Zebra equipment, not expressly approved by Zebra, could void the user’s authority to operate the equipment.

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5.1 Radio Frequency Interference Requirements - FCC

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

5.2 Radio Frequency Interference Requirements - Canada

CAN ICES-3 (A)/NMB-3(A)

5.3 CE Marking and European Area (EEA)

WARNING! This is a class A product. In a domestic environment, this product may cause radio interference in which case the user may be required to take adequate measures.
5.4 Statement of Compliance

Zebra hereby declares that this device is in compliance with all the applicable Directives, 2004/108/EC, 2006/95/EC, and 2011/65/EU. A Declaration of Conformity (DoC) may be obtained from www.zebra.com/doc.

Japan Voluntary Control Council for Interference (VCCI) Class A ITE

この装置は、情報処理装置等電波障害自主規制協議会（VCCI）の基準に基づくクラスA情報技術装置です。この装置を家庭環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。

Korea Warning Statement for Class A ITE

<table>
<thead>
<tr>
<th>기종별</th>
<th>사용자 안내문</th>
</tr>
</thead>
<tbody>
<tr>
<td>A급 기기 (업무용 방송통신기자재)</td>
<td>이 기기는 업무용(A급) 전자파적합기기로서 판매자 또는 사용자는 이 점을 주의하시기 바라며, 가정외의 지역에서 사용하는 것을 목적으로 합니다。</td>
</tr>
</tbody>
</table>

Chinese Warning Statement for Class A ITE

警告

此为A级产品，在生活环境中，该产品可能会造成无线电干扰。在这种情况下，可能需要用户对该采取切实可行的措施。
5.5 Waste Electrical and Electronic Equipment (WEEE)

**English**: For EU Customers: All products at the end of their life must be returned to Zebra for recycling. For information on how to return product, please go to: www.zebra.com/weee.

**Français**: Clients de l'Union Européenne: Tous les produits en fin de cycle de vie doivent être retournés à Zebra pour recyclage. Pour de plus amples informations sur le retour de produits, consultez : www.zebra.com/weee.

**Español**: Para clientes en la Unión Europea: todos los productos deberán entregarse a Zebra al final de su ciclo de vida para que sean reciclados. Si desea más información sobre cómo devolver un producto, visite: www.zebra.com/weee.

**Български**: За клиенти от ЕС: След края на полезния им живот всички продукти трябва да се връщат на Zebra за рециклиране. За информация относно връщането на продукти, моля отидете на адрес: www.zebra.com/weee.


**Italiano**: per i clienti dell’UE: tutti i prodotti che sono giunti al termine del rispettivo ciclo di vita devono essere restituiti a Zebra al fine di consentire il riciclaggio. Per informazioni sulle modalità di restituzione, visitare il seguente sito Web: www.zebra.com/weee.

**Português**: Para clientes da UE: todos os produtos no fim de vida devem ser devolvidos à Zebra para reciclagem. Para obter informações sobre como devolver o produto, visite: www.zebra.com/weee.

**Nederlands**: Voor klanten in de EU: alle producten dienen aan het einde van hun levensduur naar Zebra te worden teruggezonden voor recycling. Raadpleeg www.zebra.com/weee voor meer informatie over het terugzenden van producten.


**Čeština**: Pro zákazníky z EU: Všechny produkty je nutné po skončení jejich životnosti vrátit společnosti Zebra k recyklicaci. Informace o způsobu vrácení produktu najdete na webové stránce: www.zebra.com/weee.


**Magyar**: Az EU-ban vásárlóknak: Minden tönkrement termék a Zebra vállalathoz kell eljuttatni újrahasznosítás céljából. A termék visszajuttatásának módjával kapcsolatos tudnivalókért látogasson el a www.zebra.com/weee oldalra.


**Dansk**: Til kunder i EU: Alle produkter skal returneres til Zebra til recirkulering, når de er udtjent. Læs oplysningerne om returefninger af produkter på: www.zebra.com/weee.

**Ελληνικά**: Για πελάτες στην Ε.Ε.: Όλα τα προϊόντα, στο τέλος της διάρκειας ζωής τους, πρέπει να επιστρέφονται στην Ζεβρα για ανακύκλωση. Για περισσότερες πληροφορίες σχετικά με την επιστροφή ενός προϊόντος, επισκεφθείτε τη διεύθυνση www.zebra.com/weee στο Διοικητικό.

5.5.1 **Turkish WEEE Statement of Compliance**

EEE Yönetmeliğine Uygundur
6 Support

If you have a problem with your equipment, contact support for your region.
Contact information is available at: www.zebra.com/support

When contacting support, please provide the following information:

- Serial number of the unit
- Model number or product name
- Software type and version number

Support responds to calls by e-mail, telephone, or fax within the time limits set forth in support agreements. If you purchased your product from a business partner, contact that business partner for support.

Customer Support Web Sites

The Support site, located at www.zebra.com/support provides information and online assistance including developer tools, software downloads, product manuals and online repair requests.

Manual

www.zebra.com/support
7 Symbol Technologies End-User Software License Agreement

This End-User Software License Agreement ("End-User License Agreement") is between Symbol Technologies Inc. (herein "Symbol Technologies") and End-User Customer to whom Symbol Technologies' proprietary software or Symbol Technologies Products containing embedded, pre-loaded, or installed software ("Products") is made available. This End-User License Agreement contains the terms and conditions of the license Symbol Technologies is providing to End-User Customer, and End-User Customer's use of the Software and Documentation. By using, downloading or installing this software, you or the entity that you represent ("End-User Customer") are consenting to be bound by and are becoming a party to this End-User License Agreement.

1. DEFINITIONS

"Documentation" means product and software documentation that specifies technical and performance features and capabilities, and the user, operation and training manuals for the Software (including all physical or electronic media upon which such information is provided).

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"Open Source Software License" means the terms or conditions under which the Open Source Software is licensed.

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## 8 NX-7500 Series China RoHS Compliance

This table was created to comply with China RoHS requirements.

<table>
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<tr>
<th>部件名称 (Parts)</th>
<th>铅 (Pb)</th>
<th>汞 (Hg)</th>
<th>镉 (Cd)</th>
<th>六价铬 (Cr(VI))</th>
<th>多溴联苯 (PBB)</th>
<th>多溴二苯醚 (PBDE)</th>
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<td>金属部件 (Metal Parts)</td>
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