

Installing the OneC-A-600 Appliance



Electrical Hazard: Only qualified personnel should perform installation procedures.



Caution: An antistatic wrist strap is required to perform the following procedures to minimize ESD damage to the devices involved.

Unpacking the Appliance

Unpack your appliance and confirm that the carton contains the following contents:

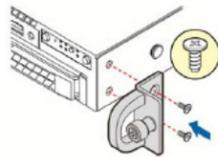
- The OneC-A-600
- A rack mounting kit
- Front panel bezel
- Two rack handles and appropriate screws
- AC power cord bracket and cable clamp kit
- This *Quick Reference*

Mounting the Appliance

If you are installing the appliance in a rack:

- 1 Install the rack handles by aligning a rack handle with the two holes on each the side of the server system and attaching each handle to the server system with two screws as shown in [Figure 1](#).

Figure 1 Installing the Rack Handles



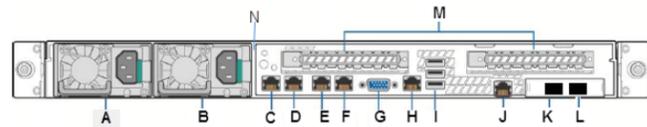
- 2 Read the *Installation Guide* included with the rack mounting kit.
 - 3 Install the rails and mount the appliance in the rack as instructed.
- If you are table mounting the appliance, ensure at least 6 cm of clearance on all sides of the appliance for proper ventilation.

Connecting to Power

Refer to [Figure 2](#) for the location of the back panel features.

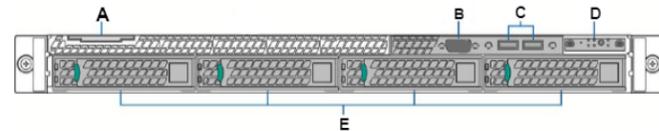
- 1 Optionally, attach the power cord bracket and nylon cable clamp tie:
 - a Using the two nuts shipped with the bracket, attach the bracket to the chassis tab to the right of Power Supply 2.
 - b Push the arrowhead end of the cable clamp tie into the hole in the bracket to anchor the tie.
- 2 Connect two AC power cables (optional) to power supplies 1 and 2. These two power supplies combine to create a redundant power supply.
- 3 Optionally, wrap the cable clamp tie around the power cables and fasten the end of the tie under the hook at the head of the tie.
- 4 Plug the other end of the cables into grounded electrical outlets or to separate power sources such as an uninterrupted power supply (UPS) or a power distribution unit (PDU).
- 5 Power on the appliance. The power button is on the front control panel as shown in [Figure 3](#) and [Figure 4](#).

Figure 2 OneC-A-600 Back Panel Layout



- | | |
|---|--|
| A Power Supply Module #1 | H RJ45 Serial-A Port |
| B Power Supply Module #2 | I USB 2.0 Ports |
| C Mgmt Port, 1 GbE RJ45 (eth0) | J RMM4 NIC Port (not used, plugged) |
| D Data Port 1, 1 GbE RJ45 (esa0) | K Data Port 2, 1/10GbE SFP+ (esa4 option, bracket covers K & L) |
| E Data Port 2, 1 GbE RJ45 (esa1) | L Data Port 1, 1/10GbE SFP+ (esa3 option, bracket covers K & L) |
| F Data Port 3, 1 GbE RJ45 (esa2) | M Not used |
| G Video Connector | N Chassis tab for opt.cable bracket |

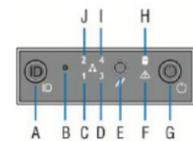
Figure 3 OneC-A-600 Front Panel Layout



- | | |
|--------------------------------|--|
| A System Label Pull-out | D Front Control Panel (see Figure 4) |
| B Not used | E Hard Disk Drive Bays (only the first two bays on the left are used) |
| C USB 2.0 Ports | |

Note: Although the appliance has five USB connectors (two on the front panel and three on the back panel), only one USB connector can be in use at any one time.

Figure 4 Front Control Panel



- | | |
|---|---|
| A System ID Button w/ Integrated LED | F System Status LED |
| B NMI Button | G Power Button w/ Integrated LED |
| C Mgmt Port Activity LED | H Hard Drive Activity LED |
| D Data Port 2 Activity LED | I Port 4 Activity LED |
| E System Cold Reset Button | J Data Port 1 Activity LED |

Hard Drive LED Indicator Patterns

The hard drive has two LED indicators visible from the front of the system — one is a green LED for disk activity, and the other is amber and indicates hard drive status. The LEDs have the following states, as described in [Table 1](#) and [Table 2](#).

Table 1 Hard Drive Activity LED Indicator Patterns

Hard Drive Condition	Activity LED Patterns
Power on and drive spinning up or spinning down	Off
Power on with drive activity	Blinking green

Table 2 Hard Drive Status LED Indicator Patterns

Hard Drive Condition	Status LED Patterns
No access or no fault	Off
Hard drive fault has occurred	Solid amber
Hard drive rebuild in progress	Blinking amber

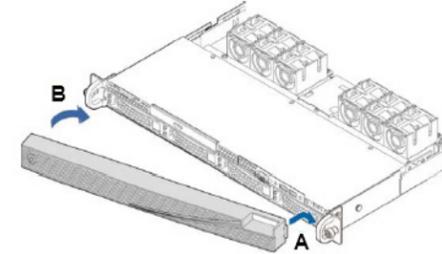
Attaching the Front Bezel

The appliance comes with an optional front panel bezel, which can be attached to the front of the chassis by snapping it on the rack handles. A key lock allows you to lock the bezel in place to restrict access to the controls on the front panel. You can monitor the system status indicators with the bezel in place.

Before installing the bezel, you must install the rack handles as shown in [Figure 1](#).

- 1 Lock the right end of the front bezel to the rack handle (see letter "A" in [Figure 5](#)).
- 2 Rotate the front bezel clockwise until the left end clicks into place (see letter "B" in [Figure 5](#)).
- 3 Lock the bezel if needed.

Figure 5 Attaching Optional Bezel



Replacing a Power Supply

The appliance has two power supplies, supplying hot-pluggable power redundancy. The system distributes the power load across both power supplies to maximize efficiency. When a power supply is removed with the system powered on, the full power load is picked up by the remaining power supply.

Note: The system requires one power supply to operate the system normally. Remove and replace only one power supply at a time in a system that is powered on.

Each power supply has a single bi-color LED to indicate power supply status, as described in [Table 3](#).

Table 3 Power Supply Status LED Indicator Patterns

Power Supply Condition	LED Pattern
Output on and OK	Green
No AC power to all power supplies	Off
AC present / Only 12VSB on (PS off) or PS in cold redundant state	1Hz Blinking Green
AC power cord unplugged or AC power lost. With a 2nd PS in parallel still with AC input power	Amber
Power supply warning events where PS continues to operate — high temp, high power, high current, slow fan	1Hz Blinking Amber
Power supply critical event causing a shutdown, failure, OCP, OVP, fan fail	Amber
Power supply firmware updating	2Hz Blinking Green

Configuring the Management Interface

A Configuration Wizard guides you through the initial system configuration steps that are necessary to deploy the appliance. The wizard is automatically launched when an administrator logs into the appliance for the first time.

You can retain the default IP address of the appliance's management interface if you do not intend to connect the appliance to your enterprise network. If you do intend to connect the appliance to your network:

- 1 Connect a laptop to the management port of the appliance.
- 2 Configure the Ethernet port of the laptop with a statically assigned unused IP address in the 192.168.10.0/24 subnet.
- 3 Launch your web browser and navigate to: <http://192.168.10.1:8181/dlux/index.html#/login> (192.168.10.1 is the default IP address on the appliance's management port).
- 4 Type "admin" as the user name and "abc123" as the password.
- 5 Click **Login**. The Extreme OneController Home screen displays.
- 6 On the **Home** screen, click **Get Started**.
- 7 On the **Host Info** screen, enter the following information:
 - Host Name—Enter the name of the OneC-A-600.
 - Domain Name—Enter the domain name of the enterprise network.
 - DNS Server—Enter the IP address of the enterprise network, and if necessary, click Add to enter additional addresses.
 - Click **Next**.
- 8 On the **Time** screen, enter the following information:
 - Time Zone—From the drop-down menu, select the desired time zone.
 - Date—Enter the correct month (MM), day (DD), and year (YYYY).
 - Time—Enter the correct hour (HH) and minute (MM).
 - Click Set Time to accept the Date and Time.
 - Click Run as Local NTP Server if desired.
 - Click Use remote NTP Server if desired.
 - Click **Next**.
- 9 On the **Interfaces** screen, enter the following information:
 - Name/Port—Enter the name for the OneC-A-600.
 - IP Address—The new IP address for the OneC-A-600 management port. Change this as appropriate for the enterprise network.
 - Click **Enabled** to enable the port.
 - Click **Allow Management Traffic** if desired.
 - Gateway—The default gateway of the network.
 - Netmask—The appropriate subnet mask for the IP address to separate the network portion from the host portion of the address (typically 255.255.255.0).
 - VLAN ID—Enter the desired VLAN ID.
 - Click **Tagged** and then click **Apply**.

- Click **Next**.
- 10 On the **Logging Server** screen, enter the following information:
 - Remote Log Servers—Enter the IP Address of the Log Server.
 - Click **Add** to add additional Log Servers.
 - Click **Next**.
 - 11 On the **SNMP** screen, enter the following information:
 - Select an SNMP preference:
 - no SNMP
 - SNMP v1/v2c
 - SNMP v3
 - Read Community—The password that is used for read-only SNMP communication.
 - Write Community—The password that is used for write SNMP communication.
 - Manager A—The IP address of the server used as the primary network manager that will receive SNMP messages.
 - Manager B—The IP address of the server used as the secondary network manager that will receive SNMP messages.
 - Click **Next**.
 - 12 The **Summary** screen displays.
 - 13 Click **Submit**. The IP addresses are now set to the network you defined. The Web connection between the laptop and the appliance is ended.
 - 14 Disconnect your laptop from the appliance's management port.
 - 15 Connect the appliance's management port to the enterprise Ethernet LAN.
- The system is now visible to the enterprise network.

Configuring the OneC-A-600 using a Serial Console Cable

Alternatively, you may still elect to provision the system by means of a serial console (rollover) cable directly connected to the OneC-A-600. The baud rate should be set to 115200 (8, N, 1). Refer to [Figure 6](#) for the pinouts for the serial cable.

Figure 6 Serial Cable Pinouts



- 1 Connect the laptop serial port to the appliance console port. If the laptop does not support RS232 interface then obtain a USB to RS232 converter cable which then connects to the RJ45-DB9F cable.
- 2 Type "admin" as the User Name and "abc123" as the Password then press **Enter**.
- 3 Read the configuration script paragraph carefully. The configuration script will walk you through configuring the Admin Password, Host Attributes Settings, Time Settings, SNMP Settings, and Data Plane Settings. At the end of each session, if you enter yes, then it will move to the next session. If you answer no, the session configuration is repeated.
- 4 Press **Enter**.
- 5 Change the Admin Password, if desired.
- 6 Change Host Attributes Settings:
 - Host Name—Enter the name of the OneC-A-600 appliance.
 - Domain Name—Enter the domain name of the enterprise network.
 - Management IP—Enter the management IP address.
 - Netmask—Enter the netmask.
 - Gateway—Enter the gateway of the enterprise network.
 - DNS Server—Enter the IP address of the enterprise network, and if necessary enter additional addresses.
 - At this point, the rest of sessions can be skipped if you carefully select yes/no through step 10. Once the appliance is connected to the network, continue steps shown in Configuring the Management Interface for completing setup.
- 7 Change Time Settings:
 - Time Zone—Enter the area.
 - Time—Enter the correct month (MM), day (DD), year (YYYY), hour (HH), and minute (MM).
 - NTP as a client—Enter local NTP Server, and if necessary enter additional NTP server.
 - Make this controller an NTP server—Enter yes if want this appliance to be local NTP server.

- 8 Change SNMP Settings:
 - Set SNMP Agent Mode (off: 0 | v2c: 1 | v3: 2)—Enter SNMP preference
 - If you select 1:
 - Read Community—The password that is used for read-only SNMP communication.
 - Write Community—The password that is used for write SNMP communication.
 - Manager A—The IP address of the server used as the primary network manager that will receive SNMP messages.
 - Manager B—The IP address of the server used as the secondary network manager that will receive SNMP messages.
 - If you select 2:
 - Context String—A description of the SNMP context.
 - Engine ID—The SNMPv3 engine ID for the controller running the SNMP agent. The engine ID must be 5 to 32 characters long.
 - Enter an SNMPv3 account user name—Create new user account:
 - If you select 1—no Authentication and no Privacy
 - If you select 2—have Authentication but not Privacy
 - If you select 3—have both Authentication and Privacy
 - Auth Protocol—If you have selected a security level of authPriv or authNoPriv, select the authentication protocol. Choices are: MD5, SHA, None.
 - Auth Password—If you have selected a security level of authPriv or authNoPriv, enter an authentication password.
 - Privacy Protocol—If you have selected the security level of authPriv, select the privacy protocol. Choices are: DES, None
 - Privacy Password—If you have selected the security level of authPriv, enter a privacy password.
 - Engine ID—If desired, enter an engine ID. The ID can be between 5 and 32 bytes long, with no spaces, control characters, or tabs.
 - Trap Destination IP—If desired, enter the IP address of a trap destination.

- 9 Change Data Plane Settings:
 - The script will walk through all data ports setting, starting from esa0 port.
 - Change port—Enter **Yes** to change port configurations.
 - Enable Port—Enter **Yes** to enable port.
 - Set IP Address—Enter the new IP address for data port.
 - Set Netmask—The appropriate subnet mask for the IP address to separate the network portion from the host portion of the address (typically 255.255.255.0).
 - Set Gateway—The default gateway of the network.
 - Set Vlan ID (1-4093)—Enter the desired VLAN ID from 1 to 4093.
 - Tagged / untagged—Enter **Yes** if desire the interface transmit tagged frames.
 - Management traffic on this interface—Enter **Yes** to allow.
 - Repeat the same for the rest of the data ports.
 - 10 The Controller Post Installation Configuration Menu pops up right after the last session is applied yes.
 - 11 Select 6 to apply settings and exit or other number for repeating the setup.
 - 12 Connect the appliance's management port to the enterprise Ethernet LAN.
- The system is now visible to the enterprise network.

Connecting the Data Ports

Data ports 1, 2, and 3 are 1 GbE RJ45 ports.

To connect twisted pair cabling:

- 1 Ensure that the device to be connected at the other end of the segment is powered on.
- 2 Connect the twisted pair segment to the appliance by inserting the RJ45 connector on the twisted pair segment into the desired RJ45 port.
- 3 Verify that a link exists by checking that the Activity Link LED is on (solid green or blinking green). If the Activity Link LED is off, perform the following steps until it is on:
 - a Verify that the cabling being used is Category 5 or better with an impedance between 85 and 111 ohms with a maximum length of 100 meters (328 feet).
 - b Verify that the device at the other end of the twisted pair segment is on and properly connected to the segment.
 - c Verify that the RJ45 connectors on the twisted pair segment have the proper pinouts and check the cable for continuity.
- 4 If a link is not established, contact Extreme Networks.

Table 4 RJ45 Port LEDs (Management Port, Data Ports 1, 2, and 3)

LED Type	LED Pattern	Status Indication
Network Speed (Right)	Off	10 Mbps
	Amber	100 Mbps
	Green	1000 Mbps
Link Activity (Left)	Off	No link
	Solid Green	Active link
	Blinking Green	Data traffic activity

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金属部件 (Metal Parts)	×	○	○	○	○	○
电路模块 (Circuit Modules)	×	○	○	○	○	○
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