

# C-Series FlexMedia Card: 36 Ports 10/100/1000 Base-T Ethernet (PoE and non-PoE), 8 Ports 1G, 2 Ports 10G

## Feature Highlights and Installation Instructions

### Feature Highlights

- There are two versions of the FlexMedia card, differing only in Power over Ethernet (PoE) support:
  - **Catalog # LC-CB-10G-1G-36V** (card type **E36VB**): PoE support to 15.4 Watts/port on 10/100/1000 ports
  - **Catalog # LC-CB-10G-1G-36T** (card type **E36TB**): non-PoE
- 36 ports with RJ-45 connectors support auto-negotiation or 10/100/1000 Base-T speed, full and half duplex.
- 8 ports use approved 1G Small-form Factor Pluggable (SFP) optical transceivers.
- 2 ports use approved 10G Small-form Factor Pluggable (SFP+) optical transceivers.
- SFP+ ports support SR and LR media modules (only Force10-specific modules are recognized by the card.).  
Note: FTOS 7.7.1.0 does not allow non-qualified SFP+ modules, which can cause board damage.
- The CB series line cards support the following CAM configurations:
  - 12K Layer 3 IP forward information base (FIB)
  - 16K Layer 2 FIB
  - 768 Layer 2 access control list (ACL) entries
  - 768 Layer 3 access control list (ACL) entries
- Support for online insertion and removal (OIR) of line card.
- Support for ingress Layer 2 and Layer 3 ACL processing across all ports.



#### Installation Notes:

- The chassis into which this line card is installed must be running FTOS version 7.7.1.0 or later and boot code 2.6.0.2 or later.
- Only the non-PoE version of the card works in a DC-powered chassis.

### LED Description

Port Type	Link Status (Left Side LED)	Speed (Right Side LED)
10/100/1000Base-T	Green blinking: Link detected/activity Green solid: Link detected/no activity Off: No link/card offline	Amber solid: 1G speed Amber blinking: 100M speed Off: 10M speed
1000Base-X	Green: Operational/no activity Green blinking: activity Off: No link/card offline	Green: On
100Base-FX	Green: Operational/no activity Green blinking: activity Off: No link/card offline	Yellow: On
Card Status LED	Green: operational Green blinking: booting/ diagnostics Red: card problem Unlit: in standby mode or power is off	

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## Installing the Line Card

- The C-Series chassis requires at least one line card to operate.
- You can add, replace, or remove C-Series line cards without interrupting the system power or system operations (hot-swappable). Any line card can be inserted into any line card slot. Line card slots are labeled 0 to 7; these labels can be seen when the fan tray is installed.
- Blanks are required in empty slots to control airflow for adequate system cooling, personal safety, and EMI containment during operation.
- The blank panels do not have board components or connector pins. Align the blank with the guides, and gently slide toward the backplane.
- Use fiber optic cables and connectors in compliance with EIA/TIA 568 Standard in the US, and ISO/IEC 11801 (2nd Edition) elsewhere.



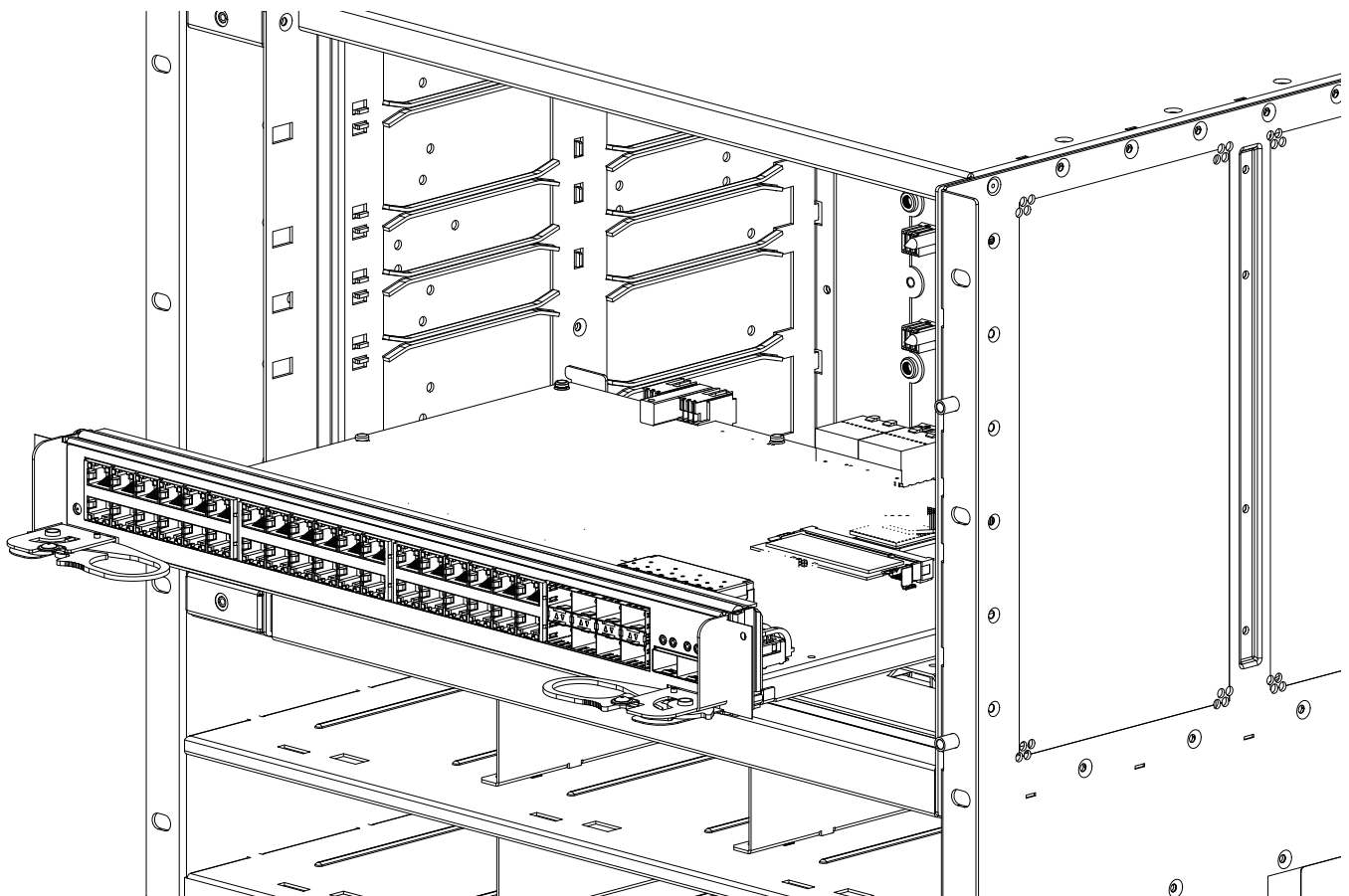
**Caution:** All chassis slots must be installed with operational modules or blanks. Always replace cards and blank panels immediately.



**Installation Notes:** The fan tray face panel has slot number markings for the RPMs and line cards. Insert the fan tray before the line cards to simplify RPM and line card installation.

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**Figure 1** Installing a Line Card





**Warning:** Electrostatic discharge (ESD) damage can occur when components are mishandled. Always wear an ESD-preventive wrist or foot-heel ground strap when handling line cards. Place line cards on an antistatic surface when they are not installed.



**Caution:** Unlock the levers before inserting the line card into the chassis. Fully engage the locking mechanism once the card has been inserted; not doing so will cause damage to the card below when that card is inserted.

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Step	Task
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| 1 | Extend the left and right card levers by first pressing gently down on the thumb tabs (see <a href="#">Figure 2</a> ) in the ejector levers and then pulling the ejector levers simultaneously until they are in the open position. See <a href="#">Figure 3</a> . |
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**Figure 2** Depress the thumb tabs



**Figure 3** Extend the levers



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|---|---|
| 2 | Hold the card assembly by the metal carrier edges. Avoid touching the printed circuit board and connector pins. |
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| 3 | Align the card with the guide, and gently slide it into any line card slot until the card is about halfway into the slot. |
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**Installation Notes:** Use the markings on the fan tray to determine which slots are for the RPMs and which are for the line cards.

Step	Task
4	Continue sliding the line card until you feel the connectors engage with the chassis backplane.
5	Rotate the levers towards the card to seat the backplane connectors and line card in place. Push on the knurled section of the levers until the thumb tabs pop up and lock the unit in place. See <a href="#">Figure 4</a> and <a href="#">Figure 5</a> .

**Figure 4** Close the levers.



**Figure 5** Press the knurled section of the lever.



**Caution:** Installing a card without fully engaging the locking mechanism will damage the EMI seal on the card below it when that card is inserted.

- 6 Install a blank panel in all slots that do not have a line card and secure it with the screws provided.



**Installation Notes:** The blank panels for RPMs and line cards are different sizes (RPM blanks are smaller); be sure that blank panels are installed in the correct slots.

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## Removing Line Cards

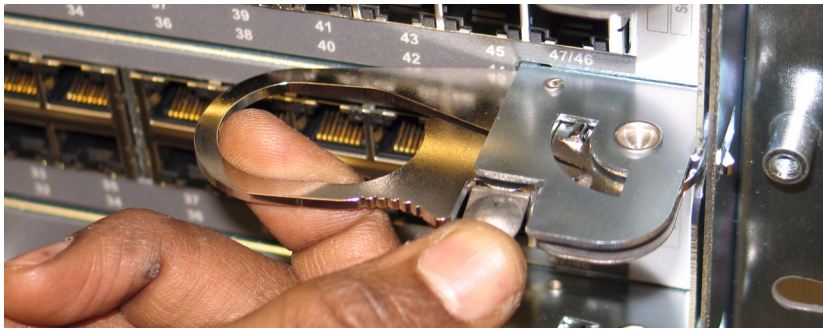


**Warning:** Do not remove a panel blank unless you are ready to install a line card into that slot. After removing a line card, immediately place a panel blank in the empty slot. Blanks are required to control airflow and electromagnetic interference.

Step	Task
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| 1 | Unplug the network interface cables connected to the line card.  |
| 2 | Extend the left and right card levers by first pressing gently down on the thumb tabs (see <a href="#">Figure 6</a> ) in the ejector levers and then pulling the ejector levers simultaneously until they are in the open position. See <a href="#">Figure 7</a> . |

**Figure 6** Depress the thumb tabs.



**Figure 7** Extend the levers.



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| 3 | Pull the card by the card levers until it is out of the slot. Avoid touching the printed circuit board and connector pins. |
| 4 | If you are not replacing the card immediately, install a blank panel.  |
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