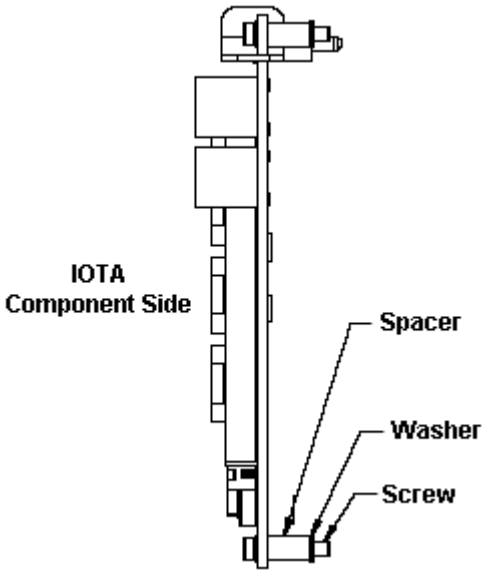
Form Factor	SFF
Power	1 W Approximately

5.2.2 To mount CF9 IOTA

> **CAUTION**
>
> Be sure you do not fully tighten the IOTA mounting screws before installing and tightening the screws in the 24V + and COM terminals to keep these screws from binding during IOTA installation.

Series C IOTA size is 6 inches.

1. Select desired mounting location on carrier and align mounting holes in IOTA with screw hole locations on the carrier. See the following dimension drawing for details.
2.
   - Be sure component side of IOTA is facing up. Secure IOTA to carrier using screws, washers and spacers provided.
   - Insert spacers and washers between bottom of IOTA and top of carrier.
   - **Only tighten mounting screws half way.**



3. Tighten the screws in terminals **24 Vdc +** and **COM** (logic ground) to the vertical bus bar to connect the cabinet resident 24 Vdc power supply to the IOTA.
4. **Fully** tighten the mounting screws.
5. Repeat Steps 1 to 4 to mount the second CF9 IOTA immediately below the one that was just installed.
6. This completes the procedure. Go to Wiring IOTA for connection details.

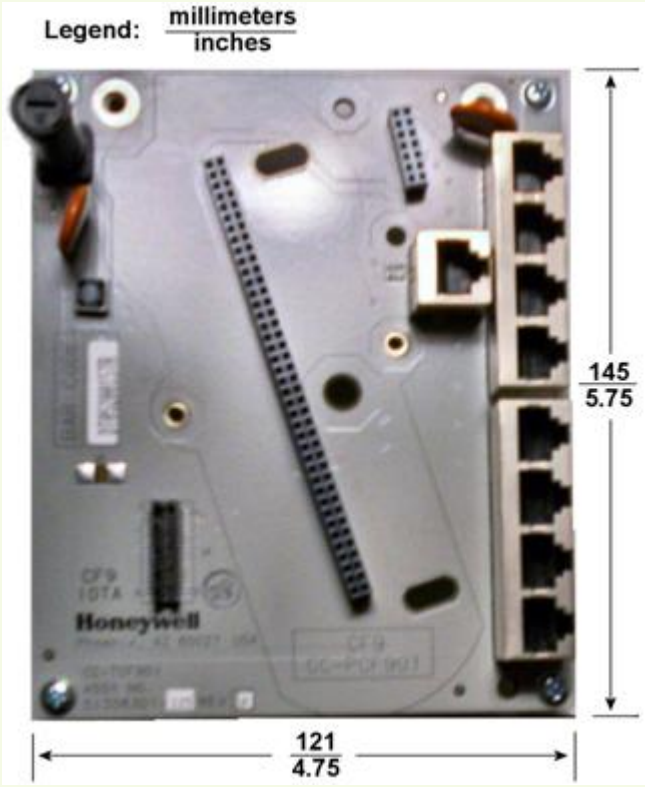


Figure 5.1 Mounting Dimensions for CF9 IOTA CC-TCF901

5.2.3 To wire CF9 IOTA

CF9 connection requirements

- You must always connect the Control Firewall uplink port to a Cisco switch.
- You must not stack the Control Firewall.
- You must connect the Control Firewall to an interface configured for portfast.
- You must connect All Series C FIMs and C300s to a Control Firewall.
- You must connect any FTE Bridge (FTEB) module communicating to a C300 to the same Control Firewall as the C300.
- You may connect FTEB/C200 and FTEB/Series A FIM to level 1 configured switches according to the established best practices. For FTEB/Series A FIM, you also have an option to connect to a Control Firewall.
- It is valid for an FTEB to be connected to a CF9, only when it is for a Series A FIM.
- It is invalid for a CF9 to host a C200 through FTEB.

1.
   - Connect **yellow** FTE cable from **FTE A** link, L1/L2 Ethernet switch to the **J3** connector on the Control Firewall (CF9) to be used as the **FTE A** link (yellow cable)
   - Connect **green** FTE cable from **FTE B** link, L1/L2 Ethernet switch to the **J3** connector on another Control Firewall (CF9) to be used as the **FTE B** link (green cable) redundant IOTA.

2. Route **yellow** cables from four **J4** and four **J5** connectors on the CF9 for **FTE A** links to corresponding **FTE A** ports on C300s, Series C FIMs, and FTE Bridge modules, as required.
3. Route **green** cables from four **J4** and four **J5** connectors on the other redundant CF9 IOTA for **FTE B** inks to corresponding **FTE B** ports on C300s, Series C FIMs, and FTE Bridge modules, as required.
4. This completes the procedure. Go to the next section.

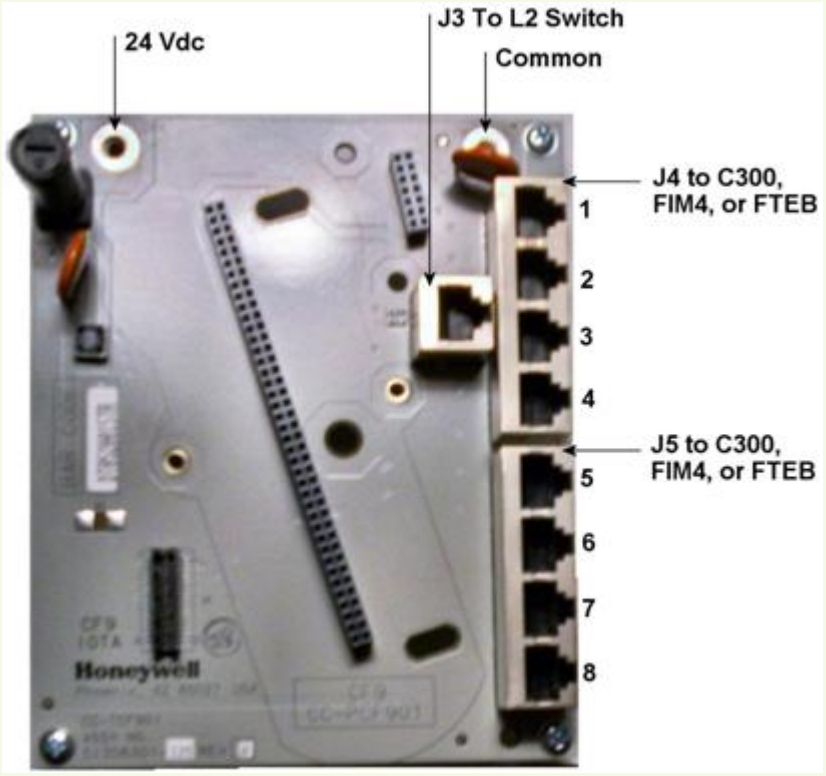
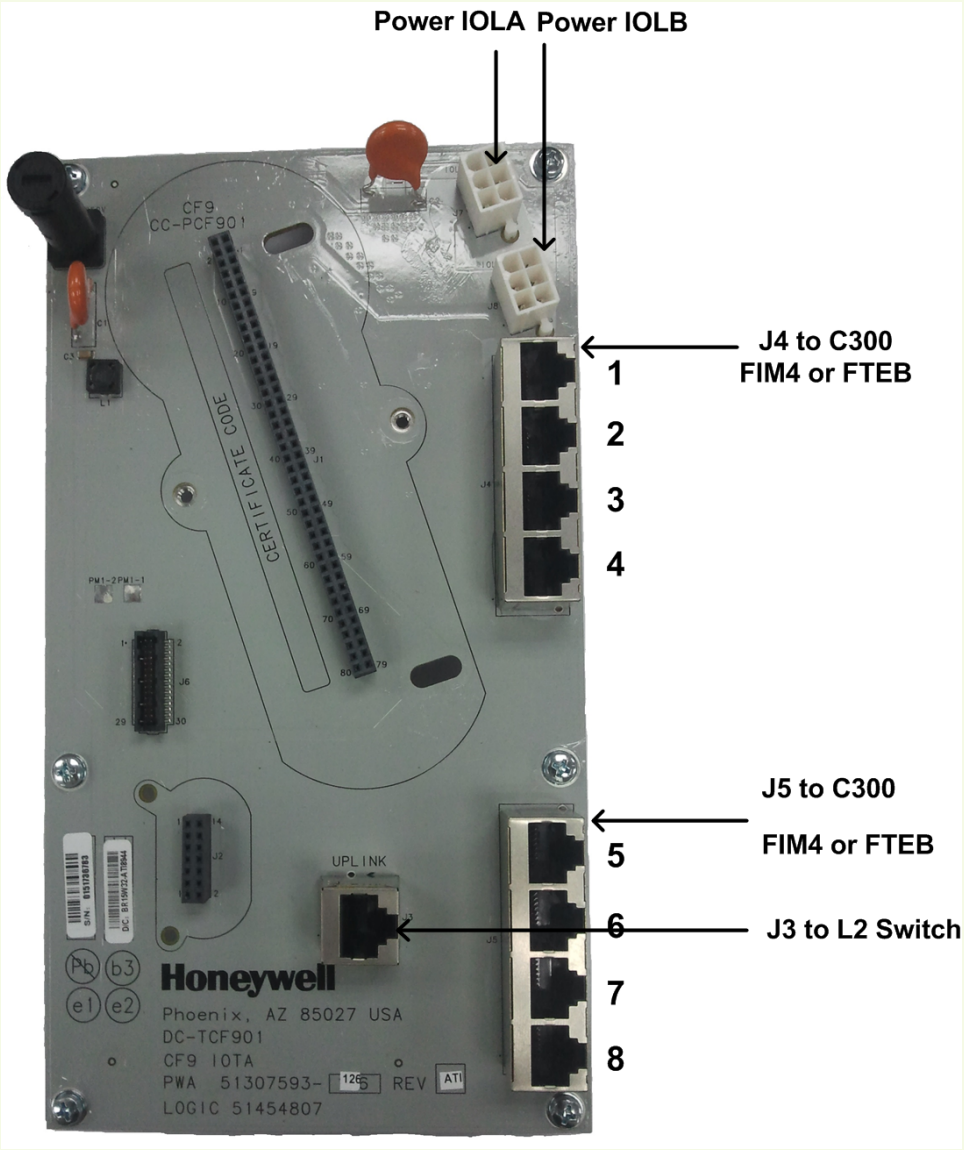


Figure 5.2 Typical Connector Locations on CF9 IOTA for Series C

Figure 5.3 Typical Connector Locations on CF9 IOTA for Series C Mark II



5.3 Installing Control Firewall CC- PCF901

- To install CF9

5.3.1 To install CF9

The following caution is not applicable for Series C Mark II.

> **CAUTION**
>
> Use only a #2 Phillips screw driver to carefully tighten the long gray plastic screw on the Module's face. **Do not use** either a #1 Phillips screw driver or a battery powered screw driver to remove or install the plastic screw as this can damage the screw head.

1. Align CF9 connector pins over the connector/slot on the IOTA labeled as Control Firewall 9 Module.
2. Carefully press down on the CF9 module until it is fully seated in the connector.
3. Use the screws provided to secure the CF9 module to the IOTA. The screws must be tightened to 1.3 Newton-meters.
4. Repeat Steps 1 to 3 to install other CF9s on their IOTAs, as required.
5. This completes the procedure. Go to the next Section.

5.4 Installing Optional Fiber Optic Module CC-FSMX01 or CC-FMMX01

5.4.1 To install optional fiber optic module

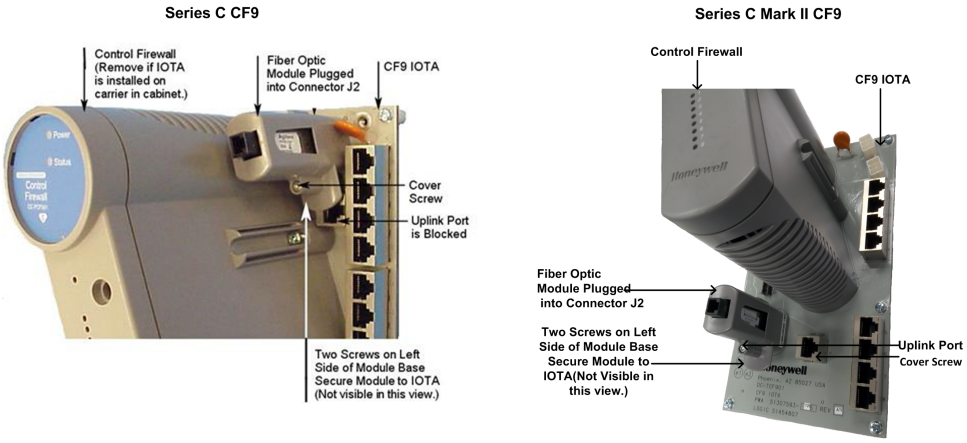
Use the following procedure to install an optional fiber optic module on a CF9 IOTA. This procedure assumes that this is an initial installation for the CF9 IOTA and no prior uplink RJ-45 plug connection has been made.

> **CAUTION**
>
> This caution is not applicable for Series C Mark II.
>
> Only use a #2 Phillips screw driver to carefully loosen or tighten the long gray plastic screw on the CF9 Module's face. Do not use either a #1 Phillips screw driver or a battery powered screw driver to remove or install the plastic screw as this can damage the screw head.

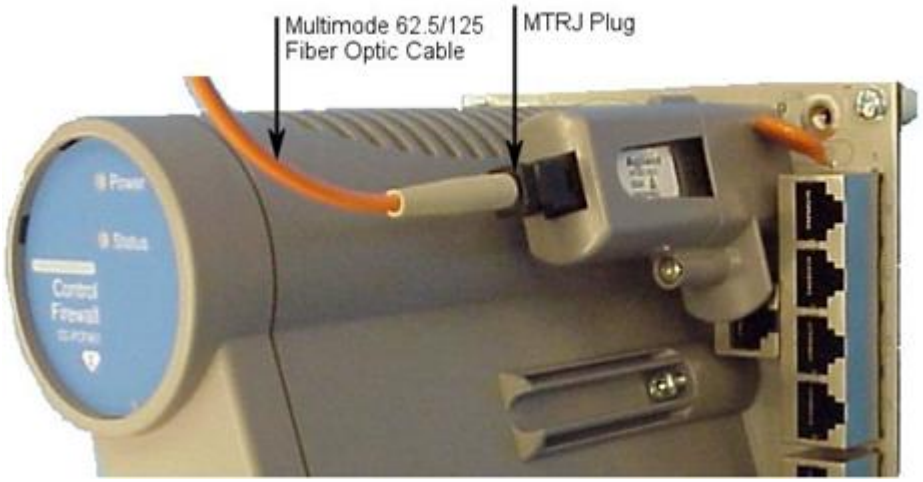
> **ATTENTION**
>
> For Series C Mark II CF9, do not connect FTE switch with fiber cable and RJ-45 cable at the same time.

1. If the CF9 IOTA is installed on a carrier in a cabinet, loosen the screws holding the Control Firewall module to the IOTA and remove the module from the IOTA so power is removed from the J2 connector on the IOTA. (It is not necessary to completely remove the long gray plastic screw located on the module's face.)
2. Carefully align the pins in the bottom of the fiber optic module with the sockets in the J2 connector on the IOTA and gently push down on the module until it is fully seated.

3. Tighten the two screws in the base of the module to secure it to the IOTA as shown in the following example illustration.



4. Connect appropriate fiber optic cable to the LC or MTRJ plug provided with the fiber optic module.
5. Plug the cable plug into the fiber optic module port as shown in the example illustration below.



6. If applicable, install the Control Firewall module on the IOTA.
7. This completes the procedure.

5.5 Upgrading Control Firewall Firmware

You can update the Control Firewall firmware using the Control Firewall Update tool. You can launch the tool from the Configuration Studio or as a standalone tool. Refer to the About the Control Firewall Update tool topic in the System Definition and Configuration online help for information on launching the tool. Refer to the Software Change Notice (SCN) supplied with your Experion system for the latest firmware version and file location details.

ATTENTION
Don't upgrade a CF9 pair together, since it may cause a LOV situation, make sure that you have identify each pair,, During the time of upgrade, if it is possible use only, one instance of the tool at a time.