Cisco 6th Generation Fabric Interconnect Ordering Guide

Introduction

The Cisco 6664 Fabric Interconnects are a core part of the Cisco Unified Computing System, providing both network connectivity and management capabilities for the system. The Cisco 6664 offers line-rate, low-latency, lossless 10/25/40/100 Gigabit Ethernet, Fibre Channel over Ethernet (FCoE), and 16/32/64 Fibre Channel.

The Cisco UCS 6664 Fabric Interconnect provides the management and communication backbone for the Cisco UCS X-Series compute nodes, UCS X9508 X-series chassis and UCS C-Series Rack Servers. All servers attached to a Cisco UCS 6664 Fabric Interconnect become part of a single, highly available management domain. In addition, by supporting a unified fabric, Cisco UCS 6664 Fabric Interconnect provides both the LAN and SAN connectivity for all servers within its domain.

From a networking perspective, the Cisco UCS 6664 uses a cut-through architecture, supporting deterministic, low-latency, line-rate 10/25/40/100 Gigabit Ethernet ports, a bandwidth of 11.65 Tbps per FI and 23.3 Tbps per unified fabric domain, independent of packet size and enabled services. It enables 1600 Gbps bandwidth per X9508 chassis per domain with a X9108-IFM-100G in addition to enabling end-to-end 100G ethernet and 200G aggregate bandwidth per X-series compute node. With X9108-IFM-25G it enables 400 Gbps bandwidth per chassis per FI domain. The product family supports Cisco low-latency, lossless 10/25/40/100 Gigabit Ethernet unified network fabric capabilities, which increase the reliability, efficiency, and scalability of Ethernet networks. The fabric interconnect supports multiple traffic classes over a lossless Ethernet fabric from the server through the fabric interconnect. Significant TCO savings come from Cisco's unified fabric design in which Network Interface Cards (NICs), Host Bus Adapters (HBAs), cables, and switches can be consolidated.
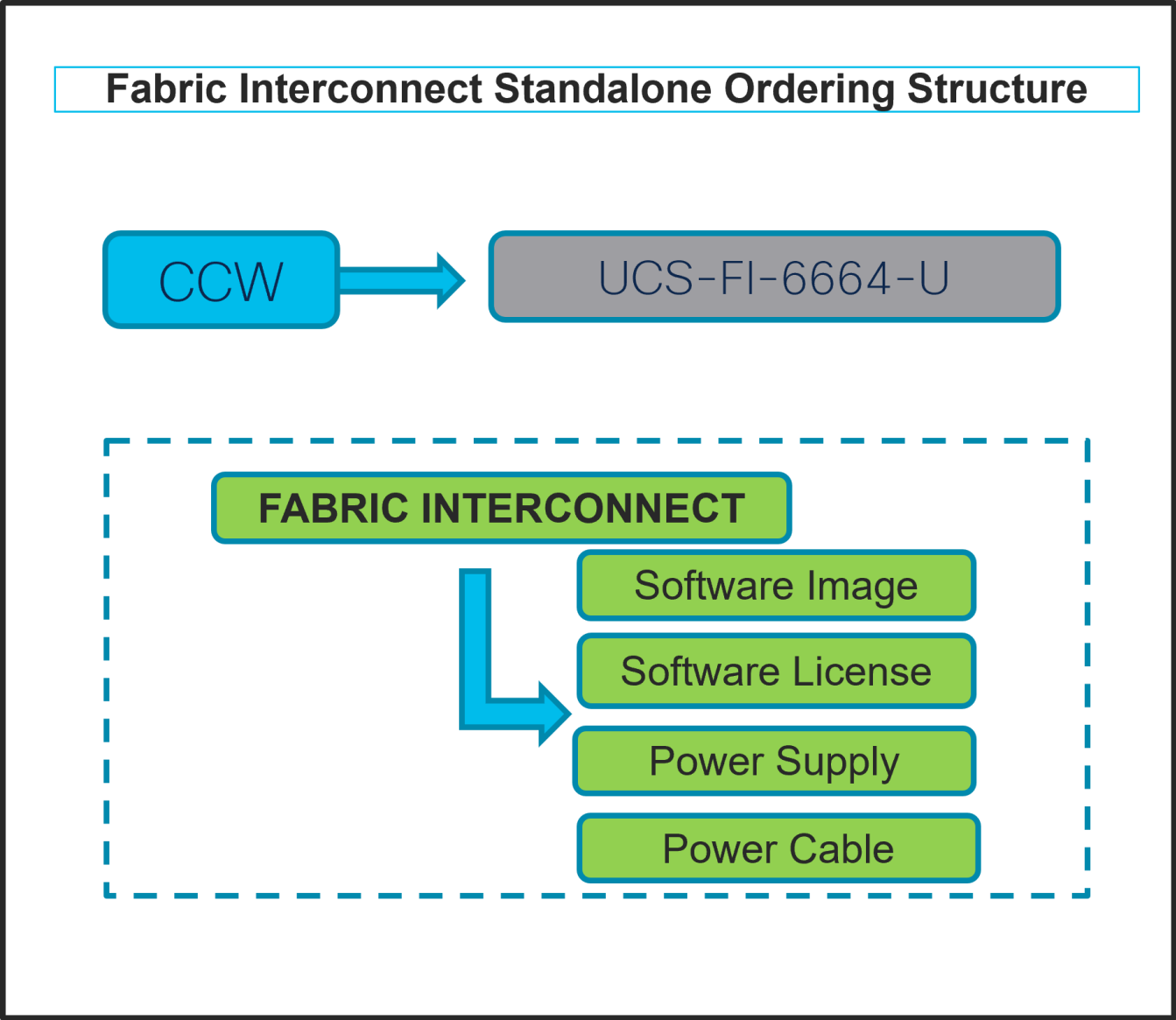
Purpose and Scope

Purpose

This document describes how to order the Cisco UCS 6600 Series Fabric Interconnects.

Scope

This ordering guide describes the information for:

- Ordering Structure of Cisco UCS 6600 Series Fabric Interconnects

- Catalog of Product IDs

- Ordering Server Hardware and Software options

- Links to additional resources

Ordering Structure of Cisco UCS 6600 Series Fabric Interconnects

Catalog of Product IDs (PIDs)

Note: For a complete list of part numbers for the see the Cisco
https://www.cisco.com/c/dam/en/us/products/collateral/servers-unified-computing/ucs-x-series-modular-system/ucs-6600-series-fabric-interconnect-specsheet.pdf

Table 1. Hardware Major Line PIDs

Product ID (PID)	Description
UCS-FI-6664-U	Standalone model: UCS 6664 2RU Fabric Interconnect, with no PSU

Step By Step Ordering Process

Step 1.

a. In CCW, search for PID and click on "Add"

b. Click on "Edit Options" to enter the configurator.

Step 2.

a. Configure UCS-FI-6664-U by selecting peripherals from category window on the left.

b. PIDs are listed in the window on the right. Some PIDs like Please make selection of Power Cable

c. Transceiver Cable and QSFP Cables are Optional selection.

d. Click on "Done" when completed.

Step 3.

a. Click on "Edit Services/Subscription" to edit Term Duration for HW Support.

Note: It is recommended that Term Duration for HW Support must align with Software Subscription Duration.

Step 4.

a. Enter the Term Duration.

b. Click on "Apply" and "Done".

Step 5.

a. Configuration for UCS-FI-6664-U is completed when status of each Product is Valid and warning messages are cleared.

b. Click on the "plus" to expand and view the selections made.