



CHAPTER 1

Cisco 3310 Mobility Services Engine Overview

This chapter provides a basic functional overview of the mobility services engine and describes the hardware, major components, and front and back panel components.

This chapter contains the following sections:

- [Introduction, page 1-1](#)
- [Identifying Chassis Components, page 1-2](#)
- [DB-9 Serial Connector Pin Assignments, page 1-4](#)

Introduction

This section briefly describes the main features of the mobility services engine, provides illustrations of the product, and diagrams showing the location of important components and connections on the system. [Figure 1-1](#) shows the mobility services engine unit.

Figure 1-1 *Mobility Services Engine Unit*

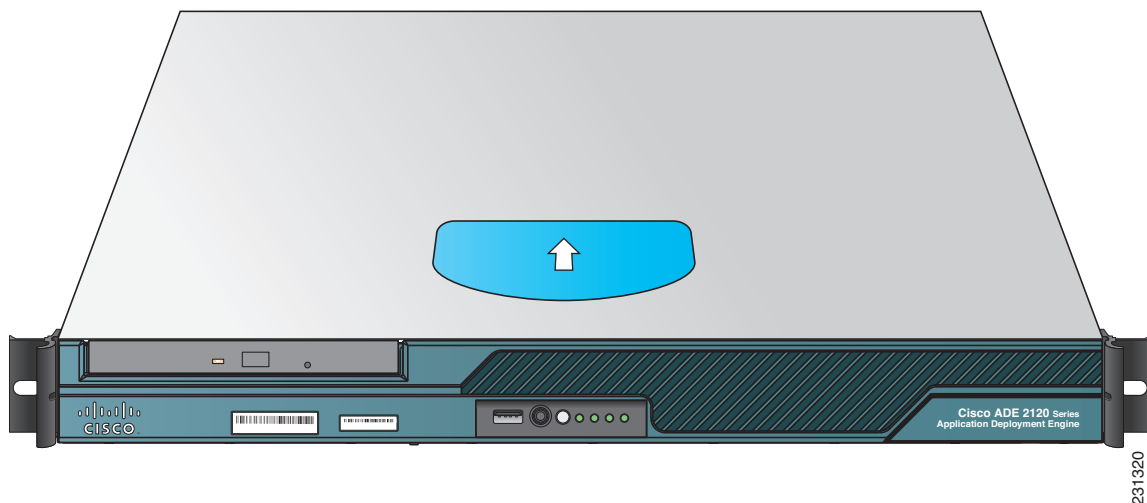


Table 1-1 summarizes the features of the mobility services engine.

Table 1-1 Mobility Services Engine Feature Summary

Feature	Description
Processor	Processor and Front Side Bus (FSB) support Supports the Core 2 Duo E4300 (1.80GHz) Intel® processor
Memory	4 GB (two 2 GB DIMM cards) ECC installed
Video	On-board video controller with DB-15 port
LAN	Two 10/100/1000 Gigabit Ethernet RJ45 ports
Hard drives	Two SATA drives (250 GB each)
Peripherals	One slimline optical DVD-ROM drive
Power supply	One 350-W power supply module
Serial ports	Three USB 2.0 ports (1 front, 2 rear) DB-9 serial console port
Keyboard and mouse ports	PS/2 ports for keyboard and mouse

Identifying Chassis Components

This section helps you identify the components of your mobility services engine. If you are near the unit, you can also use the Quick Reference Label on the inside of the cover to help identify components.

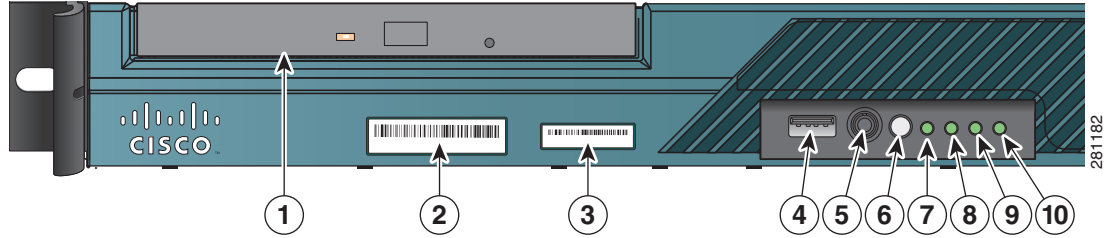
This section includes the following topics:

- [Front Panel Components, page 1-3](#)
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- [Ethernet LED Indicators, page 1-4](#)
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Front Panel Components

Figure 1-2 indicates the mobility services engine front panel components.

Figure 1-2 Labels, LEDs, and Buttons on the Mobility Services Engine Front Panel

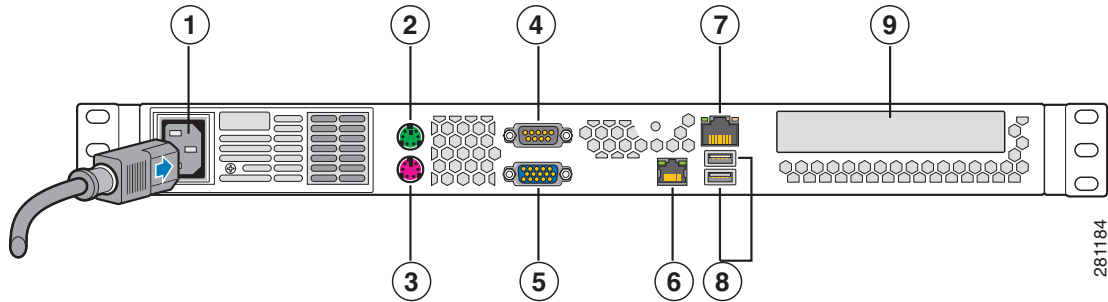


1	DVD-ROM drive	6	System power LED
2	Product ID (PID) label	7	Not used
3	Serial number label	8	Hard disk drive activity LED
4	USB port	9	NIC1 LED (Ethernet port 0)
5	Power button	10	NIC2 LED (Ethernet port 1)

Rear Panel Components

Figure 1-3 indicates the mobility services engine rear panel components.

Figure 1-3 Mobility Services Engine Rear Panel Components

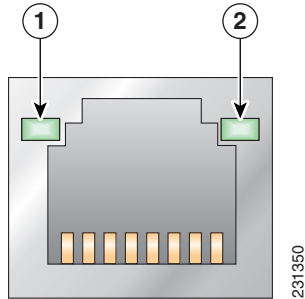


1	AC power connector	6	Ethernet port 1 (NIC 2)—10/100/1000 Mb/s
2	Mouse (PS/2 connector)	7	Ethernet port 0 (NIC 1)—10/100/1000 Mb/s
3	Keyboard (PS/2 connector)	8	USB port 0 and port 1
4	Serial console port (DB-9 connector)	9	Not used
5	Video port (DB-15 connector)		

Ethernet LED Indicators

The Ethernet port (NIC) includes LEDs that indicate the activity and speed of connection (Items 1 and 2 in [Figure 1-4](#)).

Figure 1-4 Ethernet Port LEDs



Item	LED State	Description
1—Left LED	Off	No network connection
	Amber	Network connection in place
	Blinking amber	Transmit and receive activity
2—Right LED	Off	10 Mb/s connection (if left LED is on or blinking)
	Green	100 Mb/s connection
	Amber	1000 Mb/s connection

DB-9 Serial Connector Pin Assignments

[Table 1-2](#) lists the DB-9 serial console port pin assignments.

Table 1-2 DB-9 Serial Connector Pin Assignments

Pin	Assignment	Description
1	DCD	Data carrier detect
2	RD	Receive data
3	TD	Transmit data
4	DTR	Data terminal ready
5	SG	Signal ground
6	DSR	Data set ready
7	RTS	Request to send
8	CTS	Clear to send
9	Ring	Ring indicator