Overview

Features

The Cisco Secure Malware Analytics M6 appliance provides safe and highly secure on-premises advanced malware analysis with deep threat analytics and content. Secure Malware Analytics appliances provide the complete threat grid malware analysis platform.

Many organizations that handle sensitive data, such as banks, health services, and so forth must follow various regulatory rules and guidelines that do not allow certain types of files, such as malware artifacts, to be sent outside of the network for malware analysis. By maintaining a Cisco Secure Malware Analytics appliance on-premise, organizations are able to send suspicious documents and files to it to be analyzed without leaving the network.

The Secure Malware Analytics M6 appliance supports Secure Malware Analytics Version 3.5.129 and later, and appliance version 2.19 and later.

See Product ID Numbers, on page 12 for a list of the field-replaceable product IDs (PIDs) associated with the Secure Malware Analytics M6 appliance. You can remove and replace drives and power supplies. For all other internal component failures, you must send your chassis for return material authorization (RMA).

The following table lists the features of the Secure Malware Analytics M6.

Table 1: Secure Malware Analytics M6

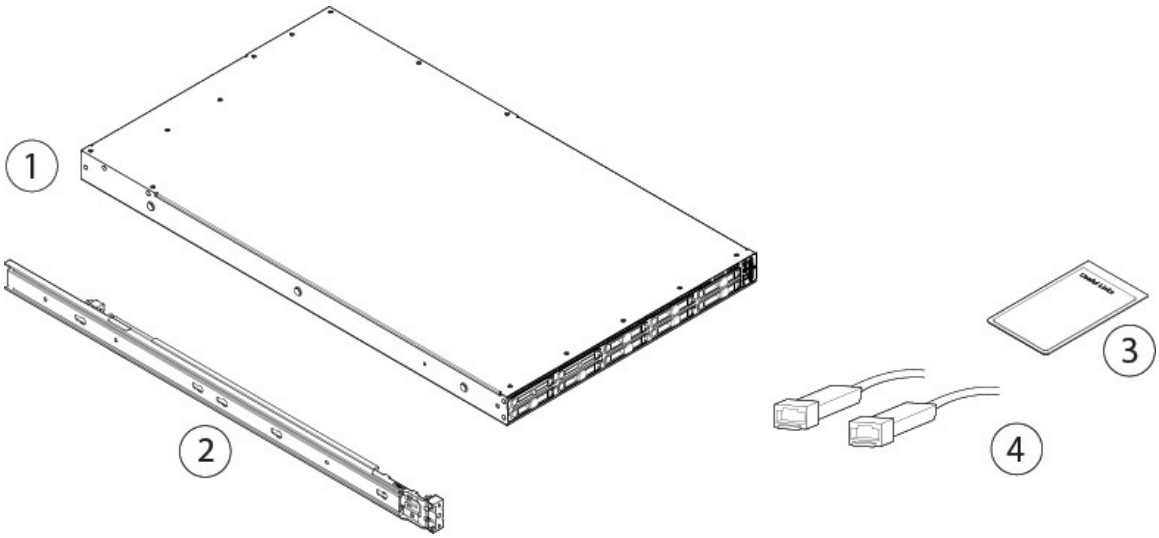
Feature	Description
Form factor	1 RU
Rack mount	Standard 19-inch (48.3 cm) 4-post EIA rack
Airflow	Front to rear Cold aisle to hot aisle
Pullout asset card	Displays the serial number
Grounding hole	Two threaded holes for dual-hole grounding lug Use is optional; the supported AC power supplies have internal grounding, so no additional chassis grounding is required.
Unit identification button	Yes
Power button	On front panel
Processor	Two Intel Xeon(R) Gold 6330N CPU @ 2.20GHz
Memory	16 x UCS-MR-X32G2RW 3200MHz Internal component only; not field-replaceable
Management ports	1 Gb built-in
Network ports	Two 1-Gb 1000Base-T Two Intel X710-DA2 Dual Port 10Gb SFP+
USB ports	Two Version 3.0 Type A
VGA port	One 3-row 15-pin DB-15 connector Enabled by default
SFP ports	Two fixed SFP+ ports
Supported SFP+	SFP-10G-LR (10 Gb) SFP-10G-SR (10 Gb)
Serial console port	RJ45 serial port running RS-232 (RS-232D TIA-561)
System power	Two UCSC-PSU1-1050W AC power supplies Hot-swappable and redundant as 1+1
Power consumption	2626 BTU/hr
Fans	Six fans for front-to-rear cooling Internal component only; not field-replaceable

Feature	Description
Storage	Two 480-GB SATA SSDs in slots 1 and 2 Six 2.4-TB SAS HDDs in slots 3 through 8 RAID 1, hot-swappable

Package Contents

The following figure shows the package contents for the Secure Malware Analytics M6. Note that the contents are subject to change and your exact contents might contain additional or fewer items.

Figure 1: Secure Malware Analytics M6 Package Contents

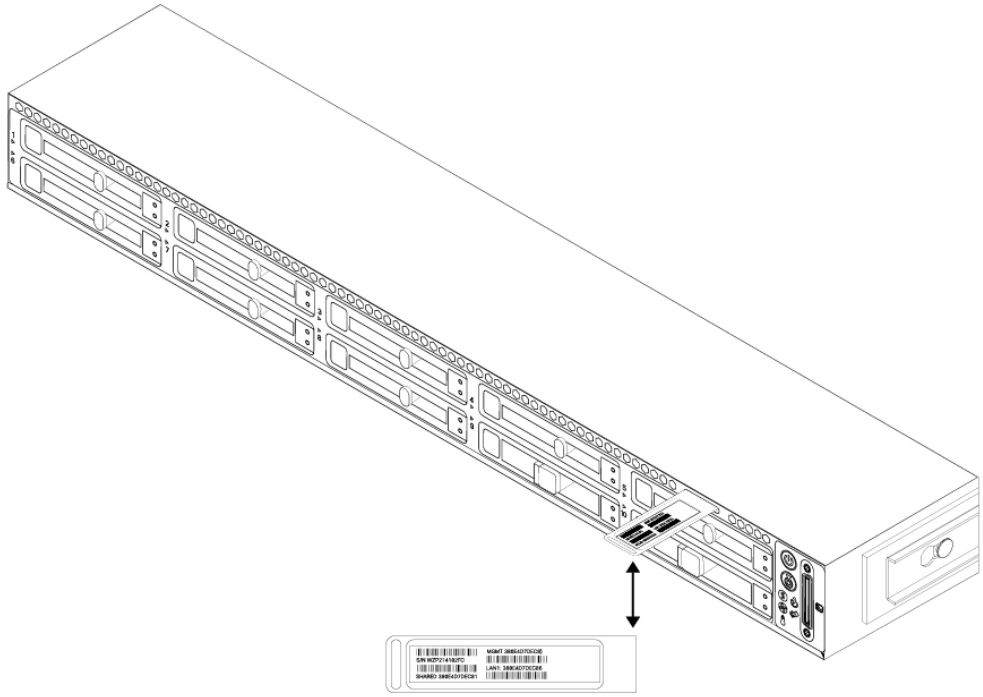


1	Chassis	**2**	Cisco 1-RU rail kit (Cisco part number 800-43376-02)
3	*Cisco Secure Malware Analytics M6* This document contains URLs that point to the product overview, hardware installation guide, regulatory compliance and safety information guide, warranty, and licensing pages, and a QR code that points to the management center Doc Portal.	**4**	Two 10-Gb transceivers with cables

Serial Number Location

The serial number (SN) for the Secure Malware Analytics M6 is printed on the pullout asset card located on the front panel as shown in the following figure.

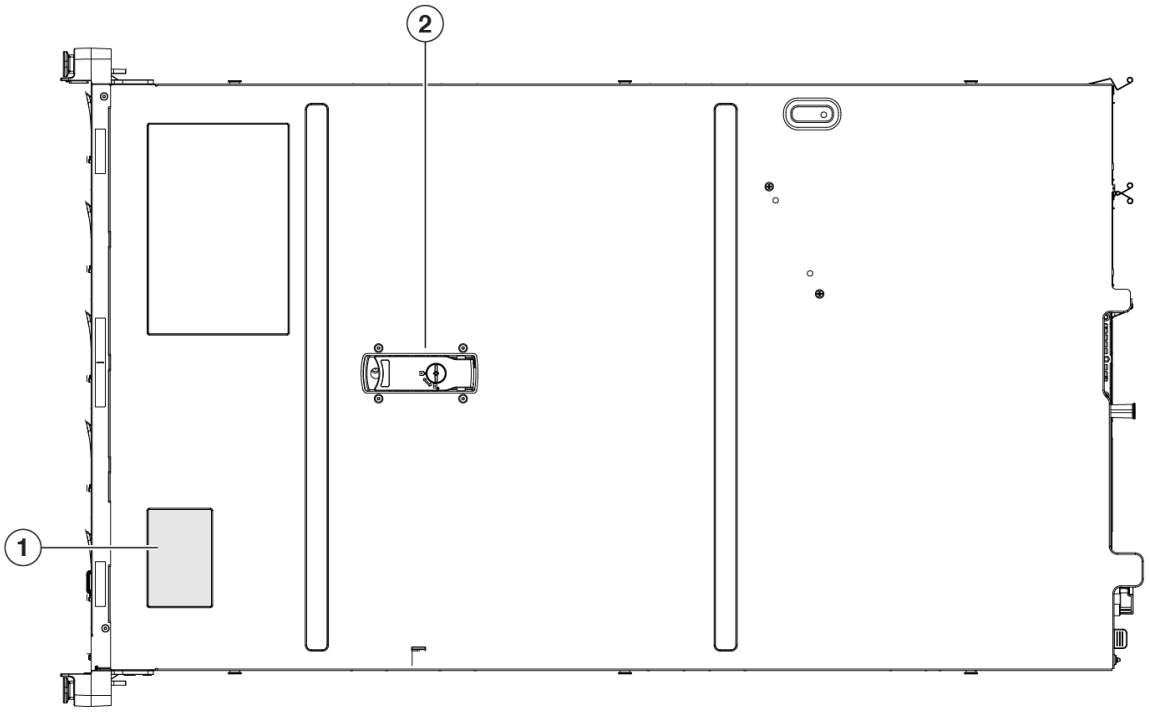
Figure 2: Serial Number on Pullout Asset Card



The serial number is also on the label on the cover of the chassis as shown in the following figure.

Caution The cover latch on the top of the chassis cover is not supported. There are no internal field-replaceable parts in the Secure Malware Analytics M6.

Figure 3: Serial Number Location on Cover

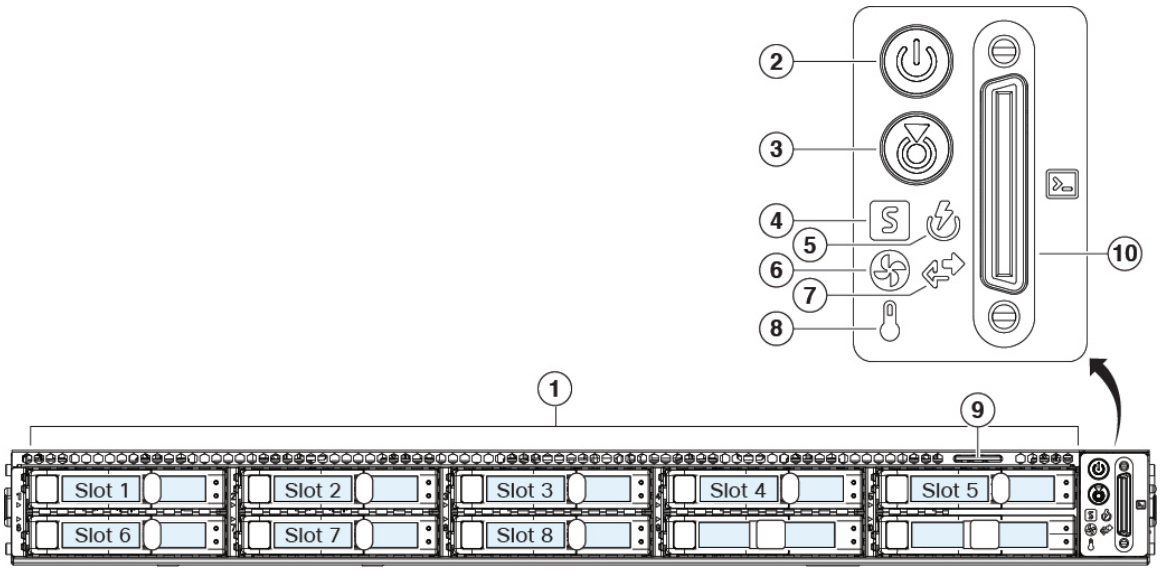


1	Serial number label	**2**	Cover latch Not supported

Front Panel

The following figure shows the front panel features and disk-drive configuration for the Secure Malware Analytics M6. See Front Panel LEDs, on page 6 for a description of the LEDs.

Figure 4: Secure Malware Analytics M6 Front Panel

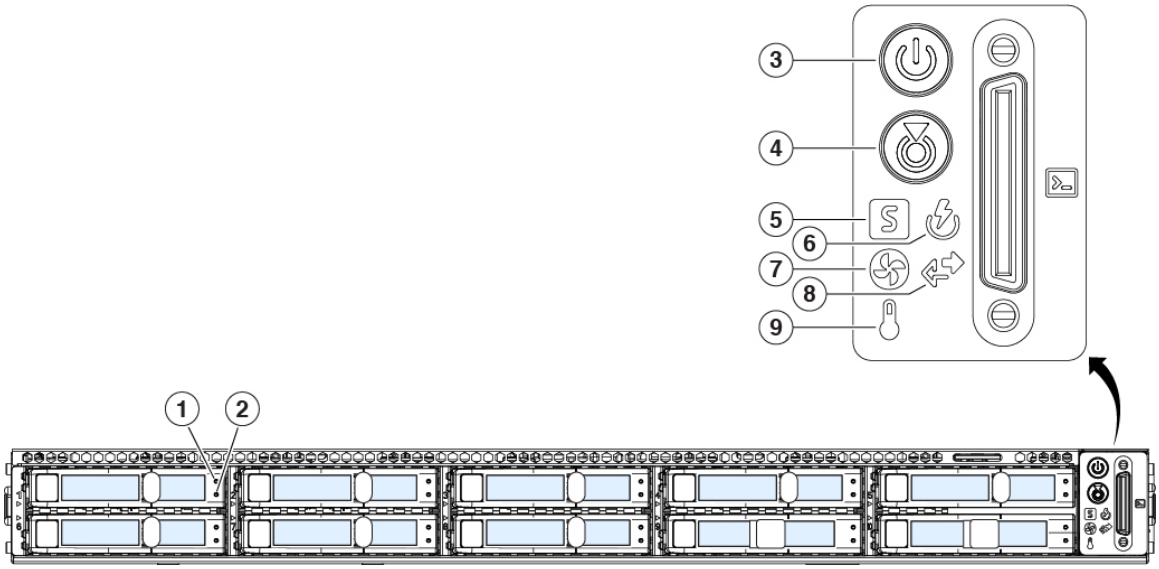


1	Drive bays Supports two SATA SSDs in slots 1 and 2 Supports six SAS HDDs in slots 3 through 8	**2**	Power button/power status LED
3	Unit identification button/LED	**4**	System status LED
5	Power supply status LED	**6**	Fan status LED
7	Network link activity LED	**8**	Temperature status LED
9	Pullout asset card	**10**	Keyboard, video, and mouse (KVM) port

Front Panel LEDs

The following figure shows the front panel LEDs and describes their states.

Figure 5: Front Panel LEDs and Their States



1	Drive fault LED: • Off—The drive is operating properly. • Amber—Drive fault detected. • Amber, flashing—The drive is rebuilding. • Amber, flashing with 1-second interval—Drive locate function activated in the software.	**2**	Drive activity LED: • Off—There is no drive in the drive tray (no access, no fault). • Green—The drive is ready. • Green, flashing—The drive is reading or writing data.
3	Power LED: • Off—There is no AC power to the chassis. • Amber—The chassis is in standby mode. • Green—The chassis is in main power mode. Power is supplied to all components.	**4**	Unit identification LED: • Off—The unit identification function is not in use. • Blue, flashing—The unit identification function is activated.

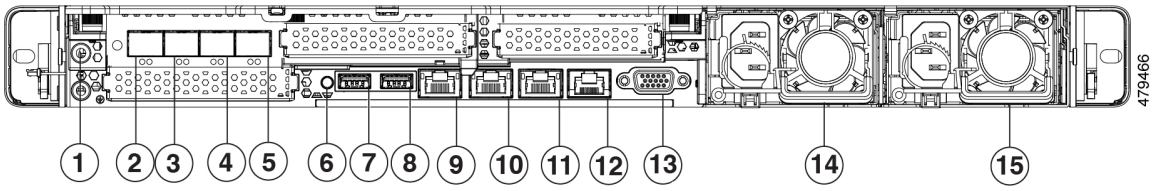
5	System status LED:
	• Green—The chassis is running in normal operating condition.
	• Green, flashing—The chassis is performing system initialization and memory check.
	• Amber—The chassis is in a degraded operational state (minor fault).
	  • Power supply redundancy is lost.
	  • CPUs are mismatched.
	  • At least one CPU is faulty.
	  • At least one DIMM is faulty.
	  • At least one drive in a RAID configuration failed.
	• Amber, two flashes—There is a major fault with the system board.
	• Amber, three flashes—There is a major fault with the DIMMs.
	• Amber, four flashes—There is a major fault with the CPUs.
		6	Power supply status LED:
			• Green—All power supplies are operating normally.
			• Amber—One or more power supplies are in a degraded operational state.
			• Amber, flashing—One or more power supplies are in a critical fault state.

7	Fan status LED: • Green—All fans are operating properly. • Amber, flashing—One or more fans breached the unrecoverable threshold.	**8**	Network link activity LED: • Off—The Ethernet port link is idle. • Green—One or more Ethernet ports are link-active, but there is no activity. • Green, flashing—One or more Ethernet ports are link-active with activity.
9	Temperature status LED: • Green—The chassis is operating at normal temperature. • Amber—One or more temperature sensors breached the critical threshold. • Amber, flashing—One or more temperature sensors breached the unrecoverable threshold.		–-

Rear Panel

The following figure shows the rear panel of the Secure Malware Analytics M6.

Figure 6: Secure Malware Analytics M6 Rear Panel



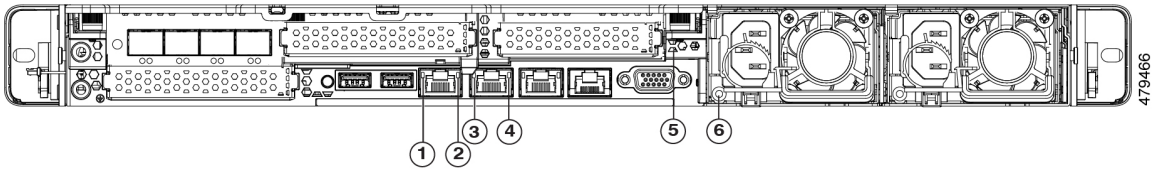
1	Threaded holes for dual-hole grounding lug	**2**	Reserved for future.
3	Reserved for future.	**4**	SFP interface Used for cluster interconnect (Clust) 10-Gigabit Ethernet SFP+ support SFP-10G-SR and SFP-10G-LR are qualified for use on the Secure Malware Analytics M6.
5	SFP management interface Used for administration and NFS server connectivity (Admin) 10-Gigabit Ethernet SFP+ support SFP-10G-SR and SFP-10G-LR are qualified for use on the Secure Malware Analytics M6.	**6**	Unit identification button
7	USB 3.0 Type A (USB 1) You can connect a keyboard, and along with a monitor on the VGA port, you can access the console.	**8**	USB 3.0 Type A (USB 2) You can connect a keyboard, and along with a monitor on the VGA port, you can access the console.
9	Data interface (Clean) Supports 100/1000/10000 Mbps depending on link partner capability.	**10**	Data interface (Dirty) Gigabit Ethernet 100/1000/10000 Mbps interface, RJ-45, LAN2
11	CIMC interface	**12**	Serial console port (RJ-45 connector)

13	VGA video port (DB-15 connector)	**14**	1050-W AC power supply (PSU 1) Redundant as 1 + 1
15	1050-W AC power supply (PSU 2) Redundant as 1 + 1		

Rear Panel LEDs

The following figure shows the rear panel LEDs and describes their states.

Figure 7: Rear Panel LEDs and Their States



1	100-Mbps/1-Gbps/10-Gbps Ethernet link (speed on both LAN 1 and LAN 2): • Off—Link speed is 100 Mbps. • Amber—Link speed is 1 Gbps. • Green—Link speed is 10 Gbps.	**2**	100-Mbps/1-Gbps/10-Gbps Ethernet link status (speed on both LAN 1 and LAN 2): • Off—No link is present. • Green—Link is active. • Green, flashing—Traffic is present on the active link.
3	1-Gbps Ethernet dedicated management link: • Off—Link speed is 10 Mbps. • Amber—Link speed is 100 Gbps. • Green—Link speed is 1 Gbps.	**4**	1-Gbps Ethernet dedicated management link: • Off—No link is present. • Amber—Link is active. • Green, flashing—Traffic is present on the active link.

5	Rear unit identification: • Off—The unit identification function is not in use. • Blue, flashing—The unit identification function is activated.	**6**	Power supply (one LED for each power supply): • Off—No AC input (12-V main power off; 12-V standby power off) • Green, flashing—12-V main power off; 12-V standby power on. • Green—12-V main power on; 12-V standby power on. • Amber, flashing—Warning threshold detected but 12-V main power on. • Amber—Critical error detected; 12-V main power off (for example, overcurrent, overvoltage, or overtemperature failure).

Power Supply

The following table lists the specifications for each 1050-W AC power supply (Cisco part number UCSC-PSU1-1050W) used in the Secure Malware Analytics M6.

Table 2: Power Supply Specifications

Description	Specification
Power consumption	1313 BTU/hr
AC input voltage range	Nominal range: 100 to 120 V AC, 200 to 240 V AC Range: 90–132 V AC, 180–264 V AC
AC input frequency	Nominal range: 50–60 Hz Range: 47–63 Hz
Maximum AC input current	9.5 A peak at 100-V AC 4.5 A peak at 208 V AC
Maximum input volt amperes	950 VA at 100 V AC
Maximum output power for each power supply	1050 W
Maximum inrush current	15 A (subcycle duration)
Maximum hold-up time	12 ms at 1050 W
Power supply output voltage	12 V DC
Power supply standby voltage	12 V DC
Efficiency rating	Climate Savers Platinum Efficiency (80 Plus Platinum certified)

Description	Specification
Form factor	RSP2
Input connector	IEC320 C13

Hardware Specifications

The following table contains hardware specifications for the Secure Malware Analytics M6 security appliance.

Table 3: Secure Malware Analytics M6 Hardware Specifications

Specifications	Model name
Dimensions (H x W x D)	1.7 x 16.89 x 29.8 in (4.32 x 43.0 x 75.6 cm)
Weight	35.3 lb (16.01 kg)
Temperature	Operating: 50 to 95°F (10 to 35°C) Maximum temperature is derated by 1°F/547 ft (1°C/300 m) of altitude above 3117 ft (950 m). Nonoperating: –40 to 149°F (–40 to 65°C) When the appliance is stored or transported.
Humidity	Operating: 8 to 90% noncondensing Nonoperating: 5 to 95% noncondensing
Altitude	Operating: 0 to 10,000 ft Nonoperating: 0 to 40,000 ft when the appliance is stored or transported
Sound power level	5.8 Bels (measure A-weighted per ISO7779 LWAd) Operation at 73°F (23°C)
Sound pressure level	43 dBa (measure A-weighted per ISO7779 LpAM) Operation at 73°F (23°C)

Product ID Numbers

The following table lists the field-replaceable PIDs associated with the Secure Malware Analytics M6. If any internal components fail, you must get a return material authorization (RMA) for the entire chassis including the SFPs and SFP cables. Remove the drives and power supplies before you send the chassis for RMA. See the Cisco Returns Portal for more information.

Table 4: Secure Malware Analytics M6 PIDs

PID	Description
TG-M6-PWR-AC-1050W	AC power supply
UCSC-PSU1-1050W=	Power supply (spare)
TG-M6-HDD-2.4TB	2.4-TB HDD
UCS-HD24TB10K4KN=	2.4-TB hard disk drive (spare)
TG-M6-SD480GM1X-EV	480-GB SSD
UCS-SD480GM1X-EV=	480GB solid state drive (spare)
UCSC-RAILB-M6	Rail kit
UCSC-RAILB-M6=	Rail Kit (spare)

Power Cord Specifications

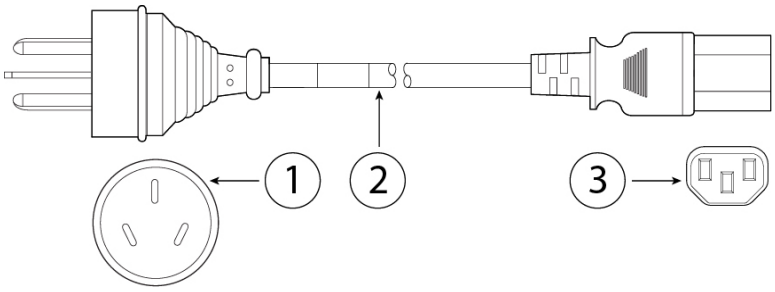
Each power supply has a separate power cord. Standard power cords or jumper power cords are available for connection to the Secure Malware Analytics M6. The jumper power cords for use in racks are available as an optional alternative to the standard power cords

If you do not order the optional power cord with the system, you are responsible for selecting the appropriate power cord for the product. Using a incompatible power cord with this product may result in electrical safety hazard. Orders delivered to Argentina, Brazil, and Japan must have the appropriate power cord ordered with the system.

Note Only the approved power cords and jumper cords provided with the Secure Malware Analytics M6 are supported.

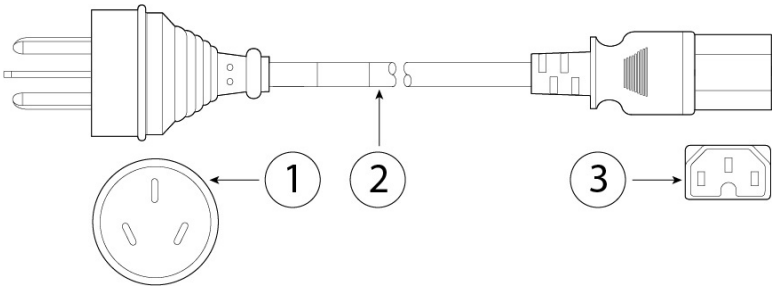
The following power cords and jumper cords are supported.

Figure 8: Argentina (CAB-250V-10A-AR)



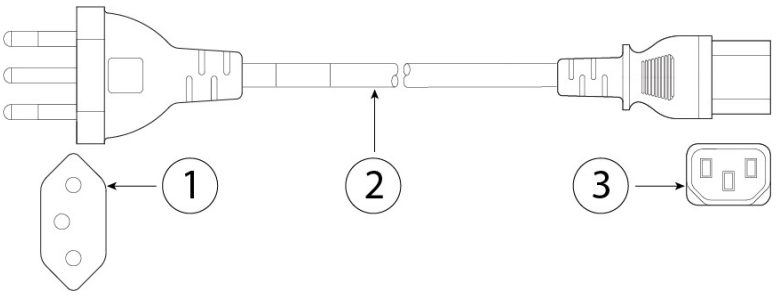
1	Plug: IRAM 2073	**2**	Cord set rating: 10 A, 250 V
3	Connector: IEC 60320/C13		—

Figure 9: Australia (CAB-9K10A-AU)



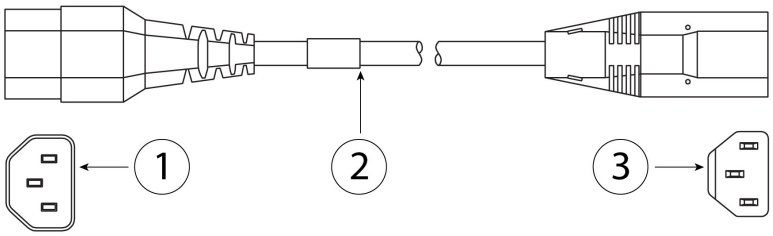
1	Plug: A.S. 3112-2000	**2**	Cord set rating: 10 A, 250 V
3	Connector: IEC 60320/C15		—

Figure 10: Brazil (PWR-250V-10A-BZ)



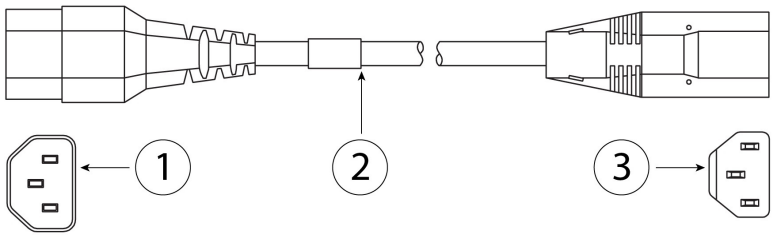
1	Plug: NBR 14136	**2**	Cord set rating: 10 A, 250 V
3	Connector: IEC 60320/C13		—

Figure 11: Cabinet Jumper (CAB-C13-C14-2M)



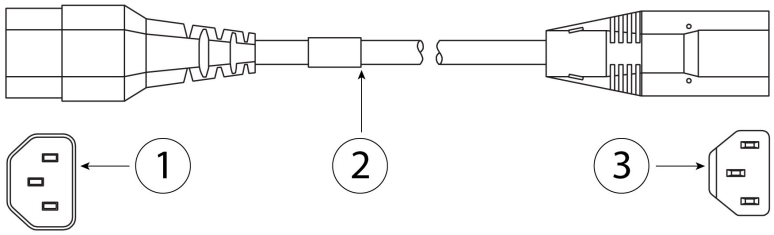
1	Plug: SS10A	**2**	Cord set rating: 10A, 250V
3	Connector: HS10S, C-13 to C-14		—

Figure 12: Cabinet Jumper (CAB-C13-C14-AC)



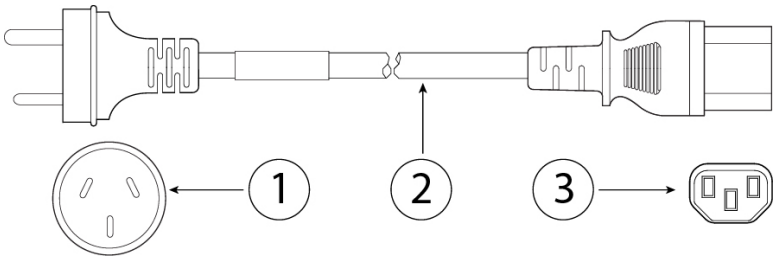
1	Plug: SS10A	**2**	Cord set rating: 10 A, 250 V
3	Connector: HS10S, C-13 to C-14 (recessed receptacle)		—

Figure 13: Cabinet Jumper (CAB-C13-CBN)



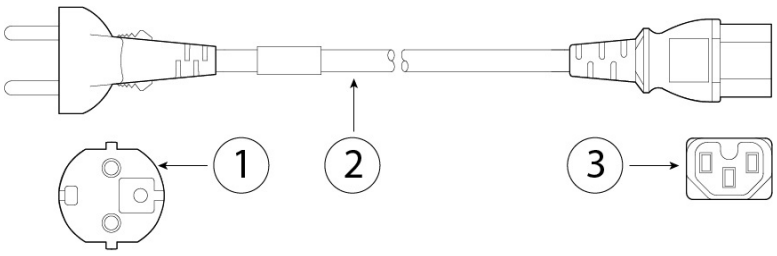
1	Plug: SS10A	**2**	Cord set rating: 10 A, 250 V
3	Connector: HS10S, C-13 to C-14		—

Figure 14: China (CAB-250V-10A-CH)



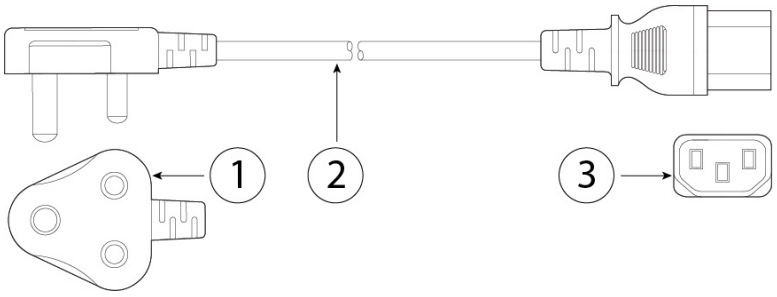
1	Plug: GB2099.1/2008	**2**	Cord set rating: 10 A, 250 V
3	Connector: IEC 60320/C13		—

Figure 15: Europe (CAB-9K10A-EU)



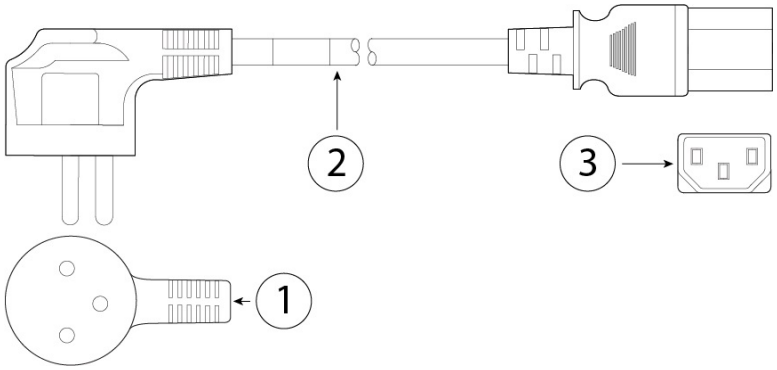
1	Plug: CEE 7/7 (M2511)	**2**	Cord set rating: 10 A/16 A, 250 V
3	Connector: IEC 60320/C15 (VSCC 15)		—

Figure 16: India (CAB-250V-10A-ID)



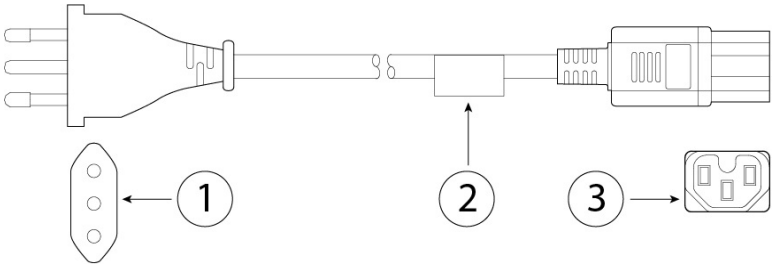
1	Plug: IS 6538-1971	**2**	Cord set rating: 16 A, 250 V
3	Connector: IEC 60320-C13		—

Figure 17: Israel (CAB-250V-10A-IS)



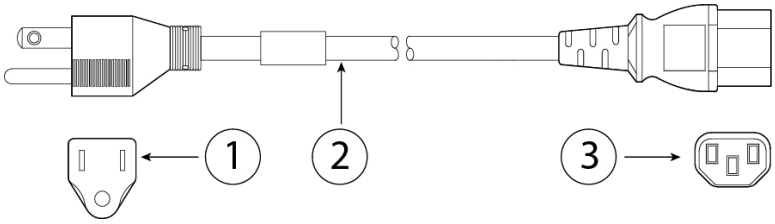
1	Plug: SI-32	**2**	Cord set rating: 10 A, 250 V
3	Connector: IEC 60320-C13		—

Figure 18: Italy (CAB-9K10A-IT)



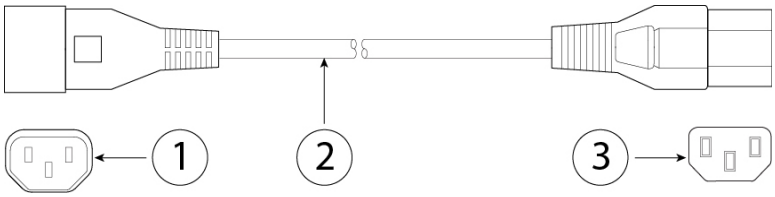
1	Plug: CEI 23-16/VII (I/3G)	**2**	Cord set rating: 10 A, 250 V
3	Connector: IEC 60320/C15 (EN 60320/C15M)		—

Figure 19: Japan (CAB-JPN-3PIN)



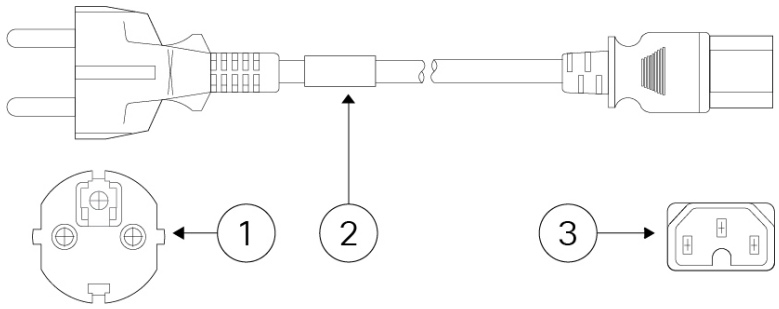
1	Plug: JIS 8303	**2**	Cord set rating: 12 A, 125 V
3	Connector: IEC 60320/C13		—

Figure 20: Japan (CAB-C13-C14-2M-JP)



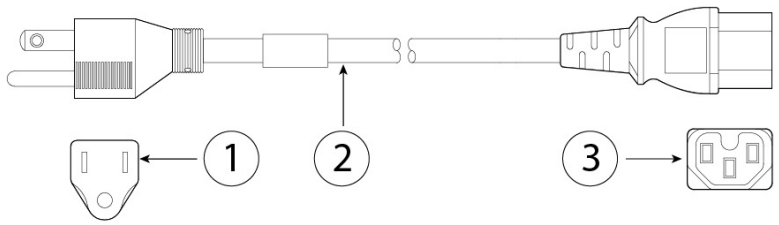
1	Plug: EN 60320-2-2/E	**2**	Cord set rating: 10 A, 250 V
3	Connector: EN 60320/C13 to C14		—

Figure 21: Korea (CAB-9K10S-KOR)



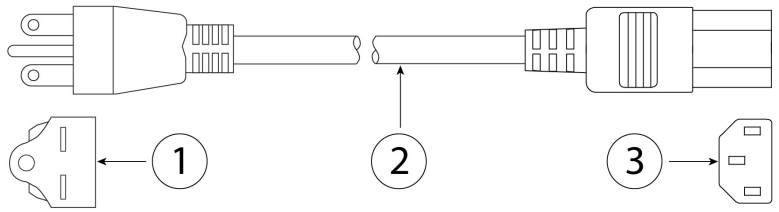
1	Plug: EL211 (KSC 8305)	**2**	Cord set rating: 10 A, 250 V
3	Connector: IEC 60320/C15		—

Figure 22: North America (CAB-9K12A-NA)



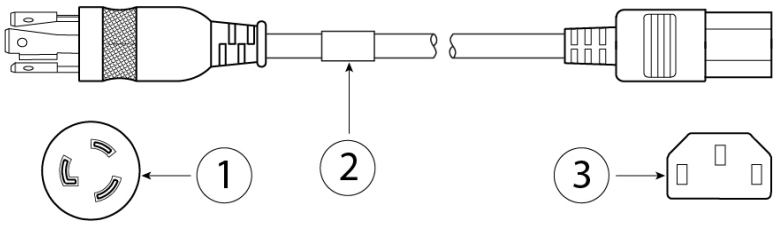
1	Plug: NEMA5-15P	**2**	Cord set rating: 13 A, 125 V
3	Connector: IEC 60320/C15		—

Figure 23: North America (CAB-N5K6A-NA)



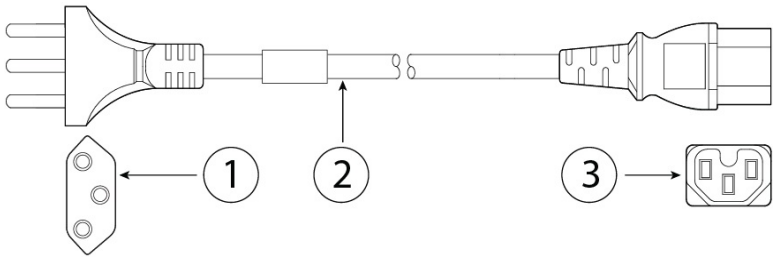
1	Plug: NEMA6-15P	**2**	Cord set rating: 10 A, 125 V
3	Connector: IEC 60320/C13		—

Figure 24: North America (CAB-AC-L620-C13)



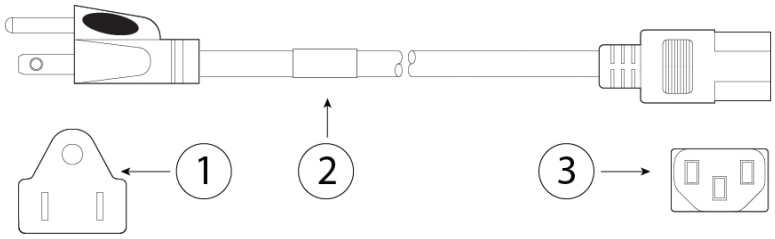
1	Plug: NEMA L6-20 (molded twist lock)	**2**	Cord set rating: 13 A, 250 V
3	Connector: IEC 60320/C13		—

Figure 25: Switzerland (CAB-9K10A-SW)



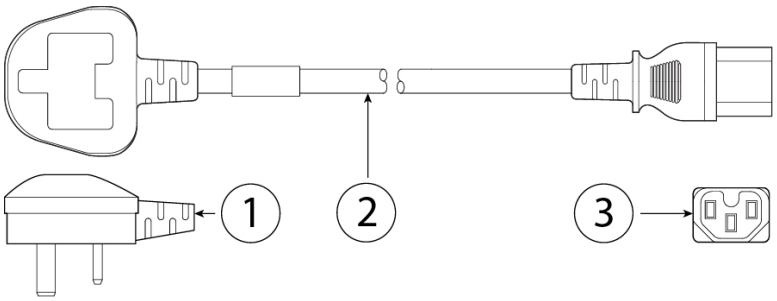
1	Plug: SEV 1011 (MP232-R)	**2**	Cord set rating: 10 A, 250 V
3	Connector: IEC 60320/C15		—

Figure 26: Taiwan (CAB-ACTW)



1	Plug: EL 302 (CNS10917)	**2**	Cord set rating: 10 A, 125 V
3	Connector: IEC 60320/C13		—

Figure 27: United Kingdom (CAB-9K10A-UK)



1	Plug: BS1363A/SS145	**2**	Cord set rating: 10 A, 250 V
3	Connector: IEC 60320/C15		—