Cisco ise 3655 datasheet

Cisco Secure Network Server (SNS) 3600 Series appliances are designed to deliver high performance and efficiency for a wide range of workloads. The Cisco SNS 3600 Series appliance supports integrated extended firmware interface (UEFI) secure boot functionality. This feature allows you to install only cisco-signed ISE images on Cisco SNS 3600 series appliances, and prevents installation of unsigned operating systems even if you have physical access to your device. For example, a generic operating system such as Red Hat Enterprise Linux or Microsoft Windows cannot boot from this appliance. The following table describes the hardware specifications of cisco SNS 3600 series appliances. Table 1. Cisco SNS 3600 Series Appliance Hardware Specifications Cisco SNS 3600 Series Appliance Hardware Specifications [Cisco SNS-3615-K9 Cisco UCS C220 M5 Intel Xeon Silver 2.1 GHz 4110, 8 CPU core, 16 threads 32 GB RAM 1 x 600 GB disk RAID-0 6 x GbE network interface physical, environmental, for power specifications, see server specifications figure 1 Figure 2 Cisco SNS-3655-K9 Cisco UCS C220 M5 Intel Xeon Silver 2.1 G Hz 4116 6 G Hz 4116 6 G Hz 4116 6 G 4166 GHz 41166, 12 CPU cores, 24 threads 96 GB RAM 4 x 600 GB disk RAID 10 6 x GbE network interface physical, environmental and power specifications, server specifications Cisco SNS-3695-K9 Cisco UCS C220 M5 Intel Xeon Silver 2.1 GHz 4116, 12 CPU Core, 24 thread 256 GB GB 60GB network interface Note note the environment and power specifications, server specifications and you can't add additional hardware resources like memory, processor or hard disk to cisco SNS 3600 Series appliances. This section describes the external features of the Cisco SNS 3600 Series appliances. The following illustration shows the front panel features of the Cisco SNS 3600 series device. For definition of LED status, see front panel LEDs. Figure 1. Cisco SNS 3600 Series Appliance Front Panel 1 Drive Bay 1 - 10 Support Serial Attachment SCSI (SAS) and Serial High-Tech Attachment (SATA) Hard Disk Drive (HDD) and Solid State Drive (SSDs) 7 Fan Status LED 2 Drive Bay 1 – 10 Support Non-Volatile Memory Express (NVMe) Based Peripheral Parts Interconnect Express (PCIe) SSDs 8 Network Link Activity LED 3 Power Button or Power Status LED 9 Temperature Status LED 4 Unit Identification Button or LED 10 Pull Out Asset Tag 5 System Status LED 11 KVM Connector (1 DB-15 VGA, 1 DB-9 serial, for KVM cable with two USB connectors) 6 Power Supply Status LED - The following illustration shows the rear panel capabilities of the Cisco SNS 3600 series appliances. For definition of LED status, see rear panel LEDs. Figure 2. Cisco SNS 3600 Series Appliance Rear Panel 1 Modular LAN-on-Motherboard (mLOM) Card Bay (x16 PCIe Lane) 7 Rear Unit Identification Button or LED 2 USB 3.0 Port 8 Power Supply (2, 1+1) 3 Dual 1Gb or 10-Gb Ethernet Port: Connect to Cisco ISEE Interface Cisco ISE Gigabitternet 1 interface) Note interface labeling is displayed from left to right. Dual LAN ports can support 1Gbps or 10Gbps, depending on the link partner capabilities. 9 PCIe riser 2 or slot 2 (x16 lane) front load NVMe SSDs (x8 lane) 4 VGA video port (DB-15 connector) 10 PCIe 1: 4 Ethernet ports are mapped to the next Cisco ISE Gigabitternet interface: Gigabittenet 2 interface gigabittenet 3 interface gigabitnet interface from left to right. This section contains information for interpreting front, rear and internal LED states - 5 1gb Ethernet-only management port 11 thread holes for dual-hole ground lug 6 serial ports (RJ-45 connector). The following picture shows the front panel LEDs of the Cisco SNS 3600 series devices. Figure 3. Front panel LED table 2. The front panel LED name status 1 SAS SAS/SATA drive fault note NVMe SSD drive tray there are different behaviors than the LEDSSS/SATA drive tray. Off-hard drive works properly. Amber- A drive defect has been detected. Yellow, flickering - the device is being rebuilt. Flashing at one-second intervals, the amber-drive finds the functions that are activated in the software. 2 SAS SAS/SATA Drive Activity LED Off - The hard drive tray does not have a hard drive (no access, no error). Green - Hard drive is ready. Green, flickering - The hard drive is reading or writing data. 1 NVMe NVMe SSD drive fault note NVMe SSD drive tray LED has different behavior with SAS/SATA drive tray. It is not turned off and can be safely removed. Green - The drive is used properly and works properly. Green, Flicker- The driver is being reset after insertion or the driver is unloaded along the ejection command. Amber - The drive failed. Amber, Flicker- The drive finds functions that are activated in the software. 2 NVMe NVMe SSD activity no off-drive activity. Green, flicker-drive activity. 3 Power button or LED off- The server does not have AC power. Amber- The server is in standby power mode. Power is only available for Cisco Integrated Management Controllers (Cisco IMC) and some motherboard features. The green-server is in mainpower mode. Power is provided to all server components. 4 Unit Identification Off - Unit identification is not used. Blue, flicker-unit identification is enabled. 5 System state green - The server runs under normal operating conditions. Green, Blink- The server is performing system resets and memory checks. Yellow, Steady - The server is in a poorly performing operating state (minor error). For example, power supply redundancy is lost. The CPU does not match. One or more CPUs are defective. At least one dual inline memory module (DIMM) is defective. One or more drives failed in the RAID configuration. Amber, 2 flickering - there is a big glitch on the system board. Amber, 3 blinking - there is a big flaw in the DIMM. Amber, 4 blinking- The CPU is in error. 6 Power supply status green - all power supplies are functioning normally. Yellow, steady - One or more power supplies are in a degraded operating state. Yellow, flickering - One or more power supplies are in critical failure conditions. 7 Fan Status Green - All fan modules work properly. Amber, Blink - One or more fan modules have violated an unrecoverable threshold. 8 Off network link activity - Ethernet light-out management (LOM) port link is idle. Green - One or more Ethernet LOM ports are link active but have no activity. Green, Flicker - One or more Ethernet LOM ports are link active with activity. 9 Temperature state green - the server operates at normal temperature. Yellow, Stability - One or more temperature sensors have violated the critical threshold. Yellow, Blink - One or more temperature sensors have violated an unrecoverable threshold. The following illustration shows the rear panel LEDs of the Cisco SNS 3600 series devices. Figure 4. Rear panel LED 3. The rear panel LED name status 1 1-Gb or 10 Gb Ethernet link speed (both LAN1 and LAN2) off-link speed is 100 Mbps. amber-link speed. green-link speed is 10 Gbps. 2 1-Gb or 10 Gb Ethernet link status (both LAN1 and LAN2) and no green-link is enabled. Green, flicker-traffic is on the active link. 3 1Gb Ethernet-only management link speed off-link speed is 10Mbps. Green, flicker-traffic is on the active link. 5 Turn off rear device identification - Device identification is not used. Blue, flicker-unit identification is enabled. 6 Power supply status (1 LED for each power supply) AC power supply: No OFF-AC input (12V main power off, 12V standby power off). Green, Flicker-12 V main power off; 12 V standby power on. Green, solid-12 V main power; 12 V standby power on. Amber, Blink- The warning threshold has been detected, but 12V main power is on. Yellow, solid- Fatal error has been detected. 12 V mains off (e.g. overcurrent, overvoltage, or overtemperature failure). DC power supply: No dc input (12V mainpower off, 12V standby power off). Green, Flicker-12 V main power off; 12 V standby power on. Green, solid-12 V main power; 12 V standby power on. Amber, Blink- The warning threshold has been detected, but 12V main power is on. Yellow, solid- Fatal error has been detected. 12 V mains off (e.g. overcurrent, overvoltage, or overtemperature failure). The server has internal error LEDs for CPU, DIMM, and fan modules. Figure 5. Internal Diagnostic LED Position 1 Fan Module Fault LED (one behind each fan connector on the motherboard) Amber-Fan is defective or not fully seated. Green-fan is OK. 3 DIMM Error LED (one behind each DIMM socket on the motherboard) These LEDs only work when the server is in standby power mode. Amber-DimM The error. Off-DIMM is OK. 2 CPU error LED (one behind each CPU socket on the motherboard). These LEDs only work if the server is in standby power mode. Amber - The CPU has an error. The CPU that is turned off is OK. - This section describes field-replaceable components and service-related topics. The view in the following illustration shows the appliance with the top cover removed. Figure 6. Serviceable component position 1 front loading drive bay 1-10 support SAS/SATA drive 10 power supply (when hot plate 1+1) 2 cooling fan module (7, Hot swapable) 11 reliable platform module (TPM) motherboard (not seen in this view) 3 super cap device mounting bracket (RAID backup) 12Ie PC rise layer (RAID backup) 12Ie PC rise layer (not seen in this view) x16 lane) front loading NVMe SSDs (x8 lane) 4 socket board (12) 13 PC ee slot, 13 PC ee or slot x16 lane) micro SD card 5 CPU and heat sink (up to 2) include 14 modular LOM (mLOM) card veto sockets on the chassis floor (x16 PCIe lane), View6 mini storage module socket supports one of the two SD card slots; Or an M.2 module with two NVMe or SATA M.2 SSD slots. 15 modular RAID (mRAID) risers, PCIe risers 2 8 internal USB 3.0 ports built into front load NVMe SSD ssnS(optional) Hardware RAID controller card interposher card for 16 PCIe cable connectors can be a riser supporting one of the card - PCIe riser 1 9C motherboard 17 micro SD socket card 19C vertical table, 3.port vertical port usb port. Features Description Chassis One Rack Unit (1RU) Chassis Central Processor Intel Xeon 2.1 GHz 4110 Intel Xeon 2.1 GHz 4116 Memory 24 DDR4 DIMM Socket Motherboard (12 EACH CPU) Multi-Bit Error Protection Multi-Bit Error Protection Baseboard Management Board Management Controller (BMC Run CIS) Management Controller (BMC) Management Controller (BMC) Cisco IMC Controller, 1Gb Dedicated To Cisco IMC It can be accessed via a 1Gb/10Gb Ethernet LAN port or a Cisco virtual interface card. Network and Management I/O rear panel: 1Gb Ethernet-only management port (RJ-45 connector) 1Gb/10Gb BASE-T Ethernet LAN port (RJ-45 connector) Dual LAN port can support 1Gbps or 10 Gbps depending on link partner capabilities. One RS-232 serial port (RJ-45 connector) one video graphics array (Db-15 connector) two USB 3.0 port front panel: two USB 2.0, one VGA, and one DB-9 serial connector used with KVM cable/ video mouse (KVM) connector. Add a mLOM card using a modular LOM One-only socket (x16 PCIe lane) to provide additional panel connectivity. Two WoL 1Gb/10gb BASE-T Ethernet LAN ports support wake-on LAN (WoL) standards. Power 2 power supply, 1+1 redundancy: AC power supply 770W Each AC power supply 1050 W AC each AC AC each DC power supply 1050 W DC power does not mix power supply type or wattage on each server. The ACPI Advanced Configuration and Power Interface (ACPI) 4.0 standard is supported. Cool seven hot swap fan modules for rear cooling from the front. Two horizontal PCIe expansion slots in the PCIe I/O PCIe riser assembly. The PCIe bus slot on this server supports the InfiniBand architecture. Save, inside you and then you can use the internal storage option: one USB port on the motherboard. Mini storage module socket with one of the SD card modules. Supports up to two SD cards. M.2 SSD module. Supports two SATA M.2 SSDs or two NVMe M.2 SSDs. One micro SD card socket on PCIe Riser 1. The storage management appliance features a dedicated internal mRAID riser that supports a PCIe-style Cisco modular RAID controller card (SAS/SATA). A PCIe-style interposer card for the server's embedded SATA RAID controller. Raid backup appliances have mounting brackets near the cooling fan of the supercap unit used in conjunction with the Cisco modular RAID controller card. Integrated video integration VGA video. Video.