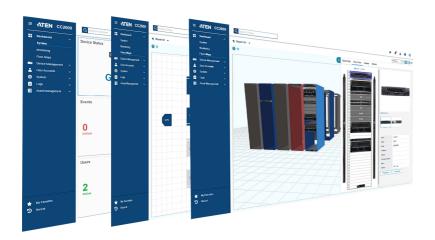
CC2000 4.0

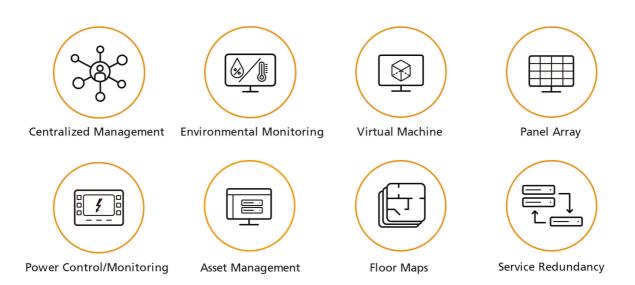
Centralized Management Software





ATEN's CC2000 Centralized Management Software offers IT teams across industries a comprehensive solution for the centralized management of IT infrastructure, both locally and globally, through a secure, unified portal. This software consolidates the management of ATEN KVM over IP switches, serial console servers, PDUs, UPS units, and third-party devices, including embedded service processors, blade servers, and both physical and virtual servers, for both in-band and out-of-band management. It also features an intuitive yet robust interface, enhancing system management efficiency and productivity.

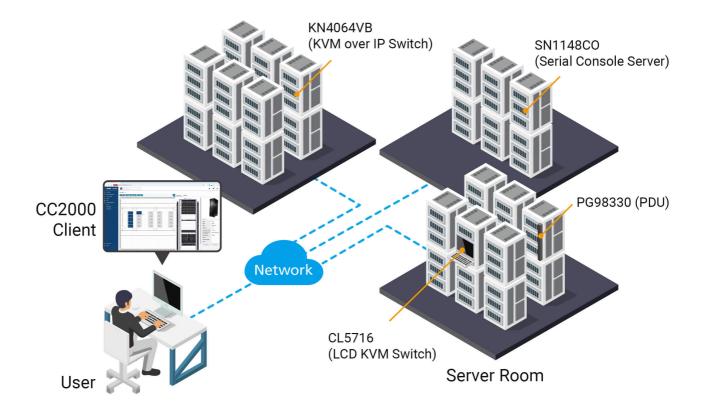
In addition, the CC2000 provides advanced capabilities such as asset management, environmental monitoring, and capacity management, including visualized floor maps. It enables users to assess, optimize, and allocate resources effectively, ensuring the efficient utilization of infrastructure in alignment with organizational goals and requirements.



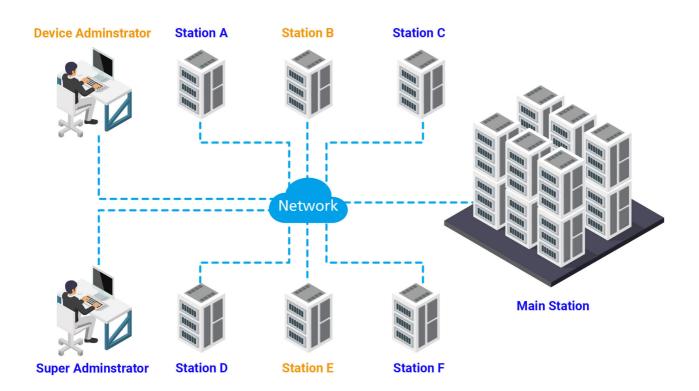
Centralized Management for IT Equipment

The CC2000 enables centralized management of IT equipment through a single platform, including ATEN KVM over IP switches, serial console servers, intelligent PDUs, UPSs, service processors, blade chassis, virtual servers and more. Its Dashboard acts as a consolidated portal, offering a comprehensive view of essential information and monitoring tasks, such as device status, events, task results, online users, licensed node usage, and logs. It also features a notification function to alert administrators to promptly respond to critical issues efficiently.

Note: Servers connected to KVM over IP switches can also be managed via BIOS level with the HTML-5 WebClient viewer

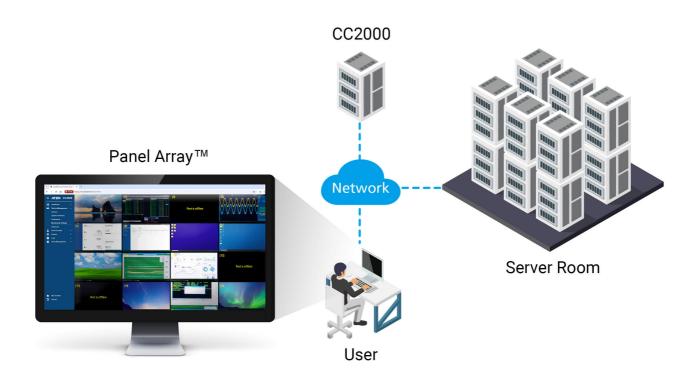


Centralized Authentication & Flexible Role-based Access Control



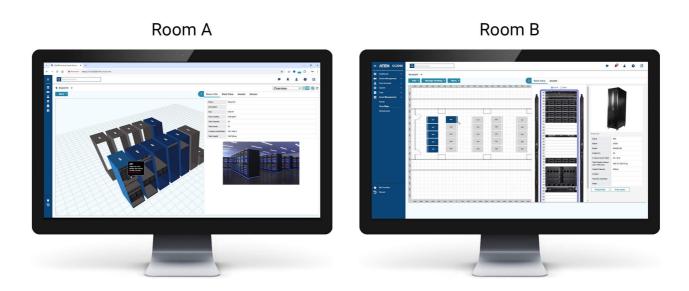
Multi-View Monitoring via Panel Array™ Mode

The video output from up to 64 port connections can be remotely monitored simultaneously on a single screen via the Panel ArrayTM Mode (available with only JavaClient / WinClient viewers) in a configurable Array-view layout, while each port's video can be further displayed in Port view for detailed viewing when it's double clicked. This feature enhances monitoring efficiency and provides administrators with improved situational awareness and troubleshooting capabilities.



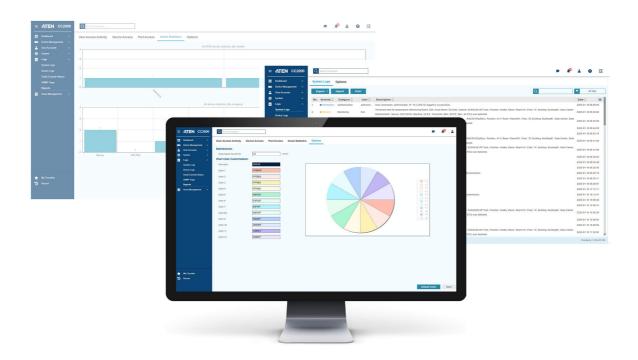
Asset Management via Floor Maps

Information such as specifications, appearance, configurations, and location (e.g., rack space, floor space) of each managed asset can be added and organized under Asset Management, and can later be used to create location maps by room in 2D or 3D images (e.g., *dxf, *svg) under Floor Maps, facilitating server room or data center operations through visualization for optimized efficiency.



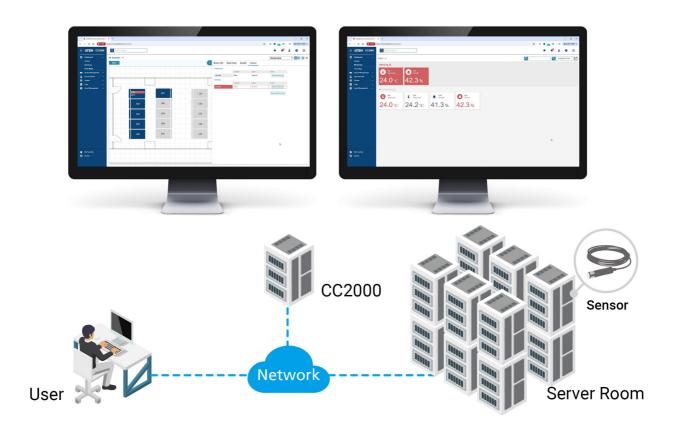
Centralized Logging & Audit Trail Reporting

In addition to system logs, all logs from ATEN KVM over IP switches, serial console servers, PDUs, network equipment (e.g., routers, NAS, switches – all via SNMP) are consolidated for security debugging purposes, and can be provided as audit trails through the syslog protocol. Moreover, activity reports on user access, device access, port access, and asset statistics can also be generated for further analysis.



Environmental Monitoring and Energy Management

Environmental and power conditions – such as temperature, humidity, intrusion, air pressure, voltage, current, dissipation, power on/off, etc. – can be remotely monitored in real time through sensor deployment, and connections to PDUs and SN11 series serial console servers, providing a comprehensive overview of the health of a server room or data center through trend charts, offering further insights to facilitate strategic decision-making.



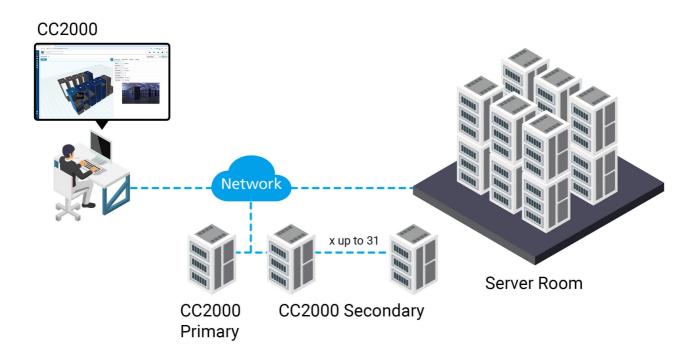
Robust Security to Bolster IT Administration

The CC2000 bolsters account logins with 2FA (2-Factor Authentication) and enables AES 256-bit encryption for secure end-to-end node access, validated with TLS v1.3 and RSA 2048-bit certificates. It also supports third-party Certification Authorities (CAs), strong user password authentication, and other security mechanisms such as IP/MAC address filtering for virtual media access, configurable failed login attempts, and lockouts.



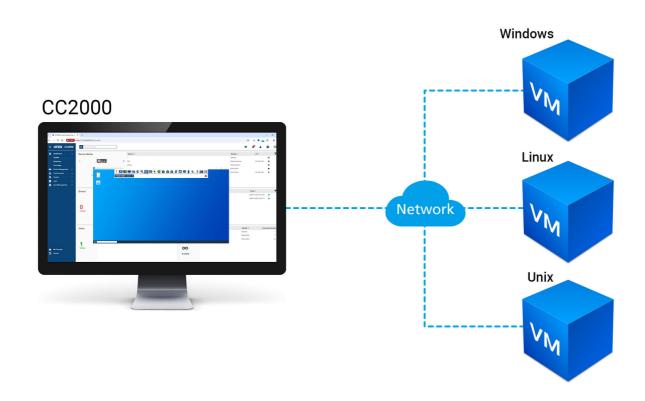
Service Redundancy to Sustain Optimum Uptime

The CC2000 enables a primary-secondary network architecture that supports the deployment of up to 31 secondary servers for service redundancy. Configurations are synchronized between the primary and secondary servers on a periodic basis to ensure optimal system availability and minimize the impact of unexpected downtime.



Seamless IT Deployment via Virtualization

Access and control of a virtualized environment can also be managed via the CC2000 by adding a virtual host over VMware platforms, such as vSphere v6.0/6.5/6.7/7.0/8.0, Windows Server 2008/2012/2016, or Citrix XenServer v6.5. Software deployment – including mounting ISO images, booting and upgrading devices, running diagnostics, and more – can be executed remotely via the CC2000 platform, as if it were done locally.



Applications

The CC2000 serves as centralized management software for IT equipment, functioning as a DCIM solution to streamline server room and data center management across diverse sectors, including government, corporate, manufacturing, telecom, finance, education, beathbraze utilities, and so on



Talk to Our Experts

If you prefer to have ATEN contact you, please complete the form and a representative will be in touch with you shortly



Features

ATEN's CC2000 Centralized Management Software provides IT Teams in every industry with a comprehensive solution that enables central management of their IT infrastructure locally and worldwide through a single portal. The software consolidates the management of all ATEN KVM over IP switches, serial console servers, ATEN PDUs, UPSs, and third party devices such as embedded service processors, blade servers, and physical and virtual servers for in-band and out-of-band management. The brand new CC2000 provides an easy-to-use yet robust interface – making system management more efficient and productive.

Featuring concise and intuitive HTML5-based (remove space) web interface, the CC2000 delivers a better user experience and advanced usability. By utilizing consolidated data, task-based navigation, and simplified menus, administrators can configure, and manage all of the IT equipment with ease

The CC2000 also features a consolidated portal, the Dashboard, to help IT staff quickly attain a full grasp of all the important information and to complete monitoring tasks with minimal effort and time. The Dashboard displays an at-a-glance overview of device status, device events, task results, online users, and licensed nodes usage. With the device status and device events sections, administrators can be immediately notified about the condition of the connected devices, as well as quickly receiving the generated critical logs. The task results section delivers vital messages about operation success or failure. Administrators can also view details of currently logged-in users and terminate suspicious user sessions. The Dashboard's enhanced notification functionality helps users to promptly handle issues and fix problems efficiently.

With the asset management functions, CC2000 enables users to quickly gain access to the specifications, appearance, installed location of the managed assets, providing complete control over floor space, rack space, IT equipment, power, and connectivity. Users can easily find assets with previously created tags and export all equipment details, simplifying the asset verification process. Featuring a floor map, CC2000 provides users the flexibility to observe the status of installed equipment from a location level down to the device level in both 2D and 3D images, facilitating comprehensive capacity planning and meticulous capacity management. It empowers users to assess, optimize, and allocate resource, ensuring efficient utilization of infrastructure resources in alignment with organizational goals and requirements.

By integrating ATEN SN11XX series, PDU series and Energy Box, the CC2000 supports real-time environment and power monitoring. This allows users to recognize potential hot spots in racks, monitor power status of connected PDUs, and inspect other important info through the system dashboard, ensuring 24/7 availability of IP equipment.

The CC2000's patented Panel Array mode lets administrators view the output of multiple ports in individual panels on the same screen. The panel configuration can combine the ports from different over-IP KVM devices and give administrators a flexible choice to select which devices they wish to monitor and how the ports appear on the screen. Ports can be accessed and managed simply by clicking on the panel it is displayed in.

The CC2000 Centralized Management Software uses Primary-Secondary architecture to offer service redundancy. When the Primary CC2000 server goes down, the CC2000 management system will keep functioning since one of Secondary units can provide the required management services until the Primary unit is back online. This feature ensures that you are able to access all your devices whenever required.

With the help of the CC2000, users can promptly handle issues and fix problems efficiently. As a secure and centralized system management solution, the CC2000 software meets the requirements of IT administrators in centralized management and easy monitoring, putting them in complete control of their data centers, server rooms and branch offices wherever they are deployed.

Note: Please note that a maintenance license is required for all existing CC2000 v3.0 users to proceed with an upgrade to CC2000 v4.0 from an earlier version, and it is strongly recommended that you consider this upgrade to sustain your system operations and take advantage of the latest advanced features and improvements. Following the launch of CC2000 v4.0, ATEN will no longer release any new features or new product support for previous CC2000 v3.x versions. However, we will continue to offer major bug fixes and security updates until the end of Q1 2024. (Maintenance License FAQ)

- Asset management effortlessly view the specifications, appearance, location, and configuration of every asset in the data center, enabling users to improve the efficiency and reliability of data center operations.

 Visualized floor map allows users to view the layout of server rooms and the configuration of server racks in 2D or 3D floor maps, providing insights on the overall the capacity and status of the infrastructure Environment and power monitoring incorporate floor maps and sensors (e.g. temperature, humidity etc.) to easily get a glance status of environmental health about your data center.

 Real-time notification for ensuring 247 availability of critical alerts, Ce2000 notifies users when monitoring data exceed a user-configured threshold.

 Trend charts and auditing allow users to gain insight, analyze findings, and take strategic actions.

 Single sign-on to consolidate the management of ATEN's KVM over IP switches, serial console servers, intelligent PDUs, and third party devices such as embedded service processors, and physical and virtual servers intuitive user interface with HTMLs to deliver friendly user experience.

 At-a-glance Dashboard portal to display an overview of the device status, device events, task results, online users, and licensed nodes usage.

 Flexible remote access to service processors including Redfish (iDRAC8/iC.05), Dell iDRAC5/6/8, HP iLO2/3/5,IBM RSA II, Dell CMC, IBM AMM, HP OA, IPMI, IMM, or to IT equipment using RDP, VNC, SSH, or Telnet IP tools. Supports cacess and control to virtualized environment over VMware vSphere 6.06.56/6.77.0/8.0, Windows Server 2008, 2012 & 2016, or Citrix XenServer 6.5.

 Supports CARPA IX Reference RADILI SA AND TACACS-6/4 for centralized authentication and authorization.

- Supports Independent of N of 20st (N 79st, N 109st, and 100st).

 Supports LDAP, AD, Kerberos, RADIUS and TACACS+ for centralized authentication and authorization

 Centralized role-based policy for user access privilege control

 Military level encryption (AES 256-bit) for secure end-to-end node access

 Access control to grant or restrict user access by IP or MAC address, and SAS 70 compliance for configurable failed login attempts and lockout

- Supports certificates signed from third-party authorities (CA)
 TLS v1.3 data encryption and RSA 2048-bit certificates to secure user logins from browser
- ILS v1.3 data encryption and HSA 2048-bit certificates to secure user logins from browser
 Supports strong user password policy to enhance the security of user accounts
 Consolidates logs from ATEN's KVM over IP switches, serial console servers, and other devices through syslog protocol for audit trail
 Universal virtual media support for easy software deployment (mount ISO image, boot, or upgrade the device remotely)
 Event notification support through Dashboard, message center, email, SNMP trap (v1, v2c, v3), and Syslog
 Task scheduling for backing up CC2000 database and configuration, exporting logs, and controlling power on/off on PDU devices
 Message Box shows internal system messages cortical logs that can be viewed in full detail with just one simple click
 Panel Array Mode allows administrators to monitor multiple video outputs of remote servers in one screen

- Mouse DynaSync automatically synchronizes the local and remote mouse cursors

- Delivers server redundancy from through primary secondary architecture for service availability

 Quick device access and management Recent and My Favorite for a list of recently visited devices and for a list of bookmarked devices, respectively

 Online Chat instant communication and collaboration between users (e.g. 1 or quick problem troubleshoot)

 Supports MOTP (Mobile One Time Password) and 2FA (Two-Factor Authentication) to provide an additional security layer of protection against account hijacks

Compatible Applia	ances
KVM over IP switches	KL1108V, KL1116V, KL1508Ai, KL1516Ai, KH1508Ai, KH1516Ai, KN1000, KN1000A, KN1108V, KN1116V, KN1108VA, KN1116VA, KN2124VA, KN214VA, KN2124VA, KN4140VA, KN4140VA, KN1132V, KN2116VA, KN2132VA, KN4116VA, KN4132VA, KN4164V, KN8132V, KN8164V, KN2116A, KN2132, KN2132VA, KN4164V, KN8132VA, KN2124VB, KN2132VB, KN4032VB, KN8032VB, KN4064VB, KN8064VB, CN8000A, CN8000A, CN8000C, CN9000C, CN900C, CN
Serial console servers	SN1148CO, SN113CO, SN116CO, SN0148CO, SN013CO, SN0116CO, SN0108CO, SN9116CO, SN9108CO, SN9108CO, SN0148, SN0132, SN0116A, SN0108A, SN9116, SN9108, SN3001, SN3002, SN3001P, SN3002P, SN3401, SN3402, SN3401P, SN3402P, SN3101
PDUs	ATEN: PE8324, PE8216, PE8208, PE8108, PE73xx, PE7208, PE7108, PE6324, PE6216, PE6208, PE6108, PE53xx, PE5208, PE5108, PE4104G, PG9xxxx, EC2004, EC1000. APC: AP79xx, AP89xx, and AP86xx.
UPSs	OLxxxxLV, OLxxxxHV
Service processor	Dell iDRAC5/6/8, HP iLO2/3/5, Redfish, IBM RSA II, Dell CMC, IBM AMM, HP OA, IPMI, IMM.
Virtual Infrastructure	VMware vSphere 6.0/6.5/6.7/7.0/8.0 Windows Server 2008/2012/2016, and Citrix XenServer 6.5.
Authentication & Authorization	Supports local user accounts, LDAP, AD, Kerberos, RADIUS and TACACS+. Role-based (Super Administrator, System Administrator, Device Administrator, User Administrator, User, Auditor) policy for access privilege control. Import user list (*.csv) to create multiple users at once.
Security	AES 256-bit encryption for secure end-to-end node access. IP or MAC addresses blocking. Virtual media security blocking. Configurable falled login attempts and lockout. Support certificate signed from third-party authorities (CA). Secure web connection with TLS v1.3 and RSA 2048-bit certificates. Strong user password authentication. Configurable user session timeout.
Network Protocol & IP Tools	IPv4/IPv6, RDP, VNC, SSH, and Telnet.

Viewer	JavaClient (JNLP). WinClient (ActiveX). WebClient (HTML5)*. Mouse DynaSync. Panel array mode (tup to 64 KVM ports). Virtual media. Exit macro support.	
Notification	SMTP. SNMP (v1, v2c, v3). Syslog. System message.	
Task scheduling	CC2000 database backup. CC2000 configuration backup. Device firmware upgrade. Export system logs. Export device logs. Export device logs. Power on/off control on ATEN PDU.	
Logs	System logs. Device logs. Serial console server logs. SMMP traps. Activity report.	
Server Redundancy	Primary/secondary architecture. 1 primary with maximum 31 secondary servers.	
Supported OS	- Supported OS with JAVA Runtime Environment (JRE) 8 Windows: 8, 10, server 2008, server 2012, server 2019, server 2022 Linux: Redhat Enterprise v7, SUSE Enterprise 9 & 10, Ubuntu 15.10, Debian 8.2, Fedora 23, OpenSUSE 13.1, CentOS 7 - Supported OS with Zulu OpenJDK 8 Windows: 10, server 2016, or server 2019 Linux: Redhat Enterprise v8.1, Ubuntu 16/20, Fedora 32, CentOS 8.1	
Supported Browsers	Internet Explorer (11), Microsoft Edge (42 or later), Chrome (56 or later), Firefox (60 or later).	
Multilingual Support	English, 繁體中文, 简体中文, 日本語, 한국어, Française, Español, Português, Deutsch, Русский.	
Others	Dashboard Environmental monitoring Online user management. NTP (Network Time Protocol) MOTP (Mobile One Time Password) 2FA (2 Factor Authentication) Asset Management 2D/3D Floor Maps Contacts	
Note	* Please check CC2000 release note for the supported models of WebClient	
License		
Basic (free)	1 Primary/16 Nodes.	
USB License Options	CC2000TN (Tiny Pack: 1 Primary/32 Nodes). CC2000XL (Extra Lite Pack: 1 Primary, 64 Nodes). CC2000LE (Lite Pack: 1 Primary, 128 Nodes). CC2000LE (Lite Pack: 1 Primary, 128 Nodes). CC2000LS (Lite Plus Pack: 1 Primary, 256 Nodes). CC2000SD (Standard Pack: 1 Primary/1 Secondary, 512 Nodes). CC2000PS (Plus Pack: 1 Primary/5 Secondary, 120 Nodes). CC2000PM (Premium Pack: 1 Primary/9 Secondary, 120 Nodes). CC2000PL (Platinum Pack: 1 Primary/15 Secondary, Unlimited Nodes). CC2000MX (Maximum Pack: 1 Primary/15 Secondary, Unlimited Nodes).	
System Add- ons	CCS1 (Add-on 1 Secondary Server License). CCN1 (Add-on 1 Node License). CCN10 (Add-on 10 Nodes License). CCN50 (Add-on 10 Nodes License). CCN50 (Add-on 50 Nodes License). CCN100 (Add-on 500 Nodes License). CCN500 (Add-on 500 Nodes License). CCN1000 (Add-on 1000 Nodes License). CCN1000 (Add-on 1000 Nodes License). CCN10000 (Add-on 1000 Nodes License). CCN10000 (Add-on 1000 Nodes License). CCN10000 (Add-on 1000 Nodes License).	
Maintenance	CCMA64 (1 YR SUP FOR 64 NODES) CCMA128 (1 YR SUP FOR 128 NODES) CCMA256 (1 YR SUP FOR 512 NODES) CCMA512 (1 YR SUP FOR 512 NODES) CCMA512 (1 YR SUP FOR 512 NODES) CCMA1024 (1 YR SUP FOR 1024 NODES) CCMA2048 (1 YR SUP FOR 1024 NODES) CCMA2048 (1 YR SUP FOR 5120 NODES) CCMA5120 (1 YR SUP FOR 5120 NODES) CCMA5120 (1 YR SUP FOR 5120 NODES) CCMA0120 (1 YR SUP FOR 5120 NODES)	
Minimum Hardware Requirements	CPU: Pentium 4, 2.60 GHz or higher Memory: 1GB Hard drive: 500MB or more free space Ethernet: Giga LAN	
Package	1x CC2000 USB License Key	

Diagram

