



eBell Linux embedded 4U Server CMS series CMS-xxx-URxx

CMS Software Features

▶ CMS Master and CMS Viewer

- eBell CMS can manage all eBell DVR, Hybrid DVR, NVR systems.
- Any eBell DVR, Hybrid DVR, NVR can be pre-set as CMS Server.
- CMS may have full recording, live view, playback functions as Master or simple live view function as Viewer.
- 1, 4, 6, 7, 8, 9, 10, 13, 16, 17, 36, 49, 64 divisions and full screen display.



CMS-xxx-UR00

(No Inner RAID, 4U)

▶ Multi-layer E-Map

- Editable Multi-layer E-Map for new camera, its view angle, I/O icons.
- Each camera can connect to any or all the sensors and select one or all different notifications.
- Auto pop-up on e-Map when event triggered.

▶ Flexible Camera Grouping

- Flexible camera grouping to facilitate the classification.
- Different groups can be displayed in different windows; multi-screen system for quick access to different groups.
- Support display rotation between groups, or rotate within each group.

▶ Remote Playback on DVR/ Hybrid DVR / NVR

- Linked up to 1024 Channels.
- Single Screen view with 64 Ch, or by order of the grouping to monitor 1024 Ch.
- Monitoring Live and playback video in different screen.
- Drag and drop screen control: Right Click to change screen position.
- Screen Resolution Support: 1280X768 (and above) .
- When event triggered, or scene changed, Triggered Channels will flash for attention.
- Real-time Video signal loss detection and notifications.
- Frame size and FPS data in Playback pictures.
- Internet Remote user management: setup control (logon up to 10 users), user administration, video backup, live viewing, and powerful search capabilities.



CMS-xxx-UR03

(Inner RAID 3 Bay, 4U)

▶ Powerful Remote Access Function

- Remote manage all eBell DVR, Hybrid DVR, NVR systems.
- Remote and local side can have its own recording modes and recording schedule.
- Extensible CMS with different models with hierarchical structure.
- Each user can set the maximum connection time.



CMS-xxx-UR06

(Inner RAID 6 Bay, 4U)



▶ Remote Video Management

- Megapixel recording frame per second up to 30 f/s(NTSC), 25f/s(PAL), depending on IP camera spec.
- Recording mode: view only/ motion/ alarm/ motion & alarm/ mixed mode/ continuous/manual/scheduled recording.
- Easy schedule planning with drag and drop editing.
- Preserved the files not to be overwritten.
- Event pre-alarm recording 5~30 Seconds; Post-alarm recording 10~120 seconds.
- Adjustable file length: 5, 10, 15 minutes.

▶ Remote Two-way Audio and Recording

- IP Camera two-way audio support.
- Synchronous audio and video recording or playback.

▶ Export Data Backup

- Support USB Flash Disk, USB external hard drives (NTFS), CD-RW/DVD-RW backup.
- Digital Watermarking on video files.
- System configurations can be exported or imported for rapid recovery on system failure.



▶ Remote Event Management

- Motion detection: 15 x 22 small blocks to set alarm area.
- Support multiple Internet I/O devices.
- Event types: Video loss, Sensor triggered, Motion detection triggered.
- Alert notifications: Video loss, Sensor triggered, HD crushed, System crushed.
- Provide statistics list of events and text report for easy analysis.
- Clickable thumbnail preview on event search record.

▶ Smart Search

- Support specified time snapshot preview.
- Support sec/min/hr picture preview, and to export or start playback by clicking picture of interest.
- Smart search on historical data of newly defined motion area.
- Continuous Smart search will generate list of suspicious event time for preview.
- Rapid export through the USB 2.0 standard AVI file to Flash 2.5-inch flash drive or small hard drive.

▶ Playback

- Synchronous playback on multiple cameras.
- Single camera playback at different time.
- Fast forward speed x1/4, x1/2, x1, x2, x4, x8, x16; Slow playback speed at x-8, x-4, x-2.
- Support single frame forward or reverse playback.
- Digital zoom function during playback on selected area.
- Support thumbnail preview, the screen changes in conditions in different intervals to locate direct playback.
- Snapshot images can be stored in USB Disk.

▶ Mobile Phone Application

- Support 3G RTSP. No additional software installation required.



▶ Remote PTZ Control

- Live View on click PTZ control for direction and position.
- Support auto cruise, with flexibility to set the duration time of each cruise point.
- I/O Device trigger for PTZ hotspot (Alarm to Preset).
- Supports RS-485 and various IP Camera's PTZ control protocol.

▶ Multi-level user management

- Password / Multi-user management.
- Admin can flexibly authorize some specific function of NVR / CMS to specific user

▶ Disk Management

- HD information and calculation of recording time.
- Support i-SCSI RAID (0/1/5/6/50/60) and inner RAID (0/1/5) disk array.
- Support HD S.M.A.R.T features
- RAID event triggered CMS can send email or trigger Alarm Device.
- Built-in mechanism for HD load balancing.

▶ Integration (Optional):

- POS, LPR, VCA (IVS), access control, Digital I/O (Internet type and Print Port type).

▶ Analytics (Optional): Intelligent video system (IVS), Video content analysis (VCA).

- Motion detection, Foreign object, Missing object, Scene change detection, Out of focus, Intrusion...

▶ Networking and System

- Support TCP/IP, PPPoE, DHCP, DDNS.
- Support NTP server.
- System log: system on/off, video loss, GUI, PTZ, schedule, Device manager.
- Support PPPoE IP and has SMTP function to forward whenever newly assigned dynamic IP address to pre-defined mail box.
- Support USB firmware upgrade.



Hardware Specification



CMS-xxx-UR00
(No Inner RAID, 4U)



CMS-xxx-UR03
(Inner RAID 3 Bay, 4U)



CMS-xxx-UR06
(Inner RAID 6 Bay, 4U)

Chipset	Intel® X38 ICH9R + PXH/V Chipset
CPU	<ul style="list-style-type: none"> • Single LGA775 Socket • Supports Intel® Core™2 Extreme QX9000/QX6000 series • Supports Intel® Core™2 Quad Q9000/Q8000/Q6000 series
Memory Type	DDR3 1333/1066/800MHz un-buffered, ECC or non-ECC SDRAM,
Audio	High Definition 7.1 Channel Audio
Networking Controller	Gigabit LAN Port
PCI-E Slots	2(x16) PCI-e 2.0 slot 1(x1) PCI-e slot 2x 32-bit 33MHz PCI (5V) slots
USB	12x USB 2.0 / 1.1 compatible 6 rear + 2 Type A connectors + 2 headers (4 ports)
SAS Controller	ACS-76200
RAID	RAID 0 、 1 、 5 support
Power Supply	<ul style="list-style-type: none"> • 500W (No Inner RAID) • 700W (Inner RAID 3, 6 Bay)
Dimensions	4U : 178 (H) x 482 (W) x 528 (D) mm



4U Server CMS Full Model List

Product Coding



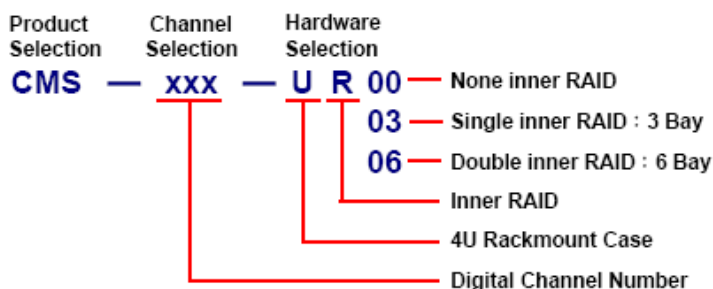
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(No Inner RAID, 4U)



CMS-xxx-UR03
(Inner RAID 3 Bay, 4U)



CMS-xxx-UR06
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Item	Model Code	Case + Power	Main board	CPU	RAM 2G/ 4G	DOM	Inner RAID	RAID CARD
1	CMS-016-UR00	4U + 500W	Industrial	Quad	DDR3 2G*4	512M	N	N
2	CMS-016-UR03	4U + 700W	Industrial	Quad	DDR3 2G*4	512M	Inner RAID 3X*1	N
3	CMS-016-UR06	4U + 700W	Industrial	Quad	DDR3 2G*4	512M	Inner RAID 3X*2	N
4	CMS-024-UR00	4U + 500W	Industrial	Quad	DDR3 2G*4	512M	N	N
5	CMS-024-UR03	4U + 700W	Industrial	Quad	DDR3 2G*4	512M	Inner RAID 3X*1	N
6	CMS-024-UR06	4U + 700W	Industrial	Quad	DDR3 2G*4	512M	Inner RAID 3X*2	N
7	CMS-032-UR00	4U + 500W	Industrial	Quad	DDR3 2G*4	512M	N	N
8	CMS-032-UR03	4U + 700W	Industrial	Quad	DDR3 2G*4	512M	Inner RAID 3X*1	N
9	CMS-032-UR06	4U + 700W	Industrial	Quad	DDR3 2G*4	512M	Inner RAID 3X*2	N
10	CMS-048-UR00	4U + 500W	Industrial	Quad	DDR3 2G*4	512M	N	N
11	CMS-048-UR03	4U + 700W	Industrial	Quad	DDR3 2G*4	512M	Inner RAID 3X*1	N
12	CMS-048-UR06	4U + 700W	Industrial	Quad	DDR3 2G*4	512M	Inner RAID 3X*2	N
13	CMS-064-UR00	4U + 500W	Industrial	Quad	DDR3 2G*4	512M	N	N
14	CMS-064-UR03	4U + 700W	Industrial	Quad	DDR3 2G*4	512M	Inner RAID 3X*1	N
15	CMS-064-UR06	4U + 700W	Industrial	Quad	DDR3 2G*4	512M	Inner RAID 3X*2	N