



Cerebrum

Broadcast control & monitoring system

→ evs.com/cerebrum



Product overview

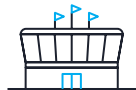
As a complete Broadcast Control System (BCS), Cerebrum gives you control over your most critical broadcast operations. Accessible via one application, the system's powerful and highly customizable interfaces allow you to control, configure and monitor any broadcast environment the way you want. Cerebrum is designed to be robust in both small to large infrastructures and adapted for SDI and IP, offering you a scalable solution that is ready for today's and tomorrow's operations.

Core benefits



EVERYTHING IS CUSTOMIZABLE

Users are free to modify the interfaces' default templates or design their own for a highly customizable experience, both on a live system as well as offline at home using snapshots of the system.



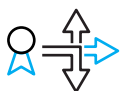
DESIGNED FOR MISSION CRITICAL LIVE EVENTS

Built on a database system, Cerebrum can handle many operational commands in milliseconds. It lets you access all of the configuration information from one place, making it especially advantageous for larger systems with many devices and clients.



ADAPTABLE TO ANY SCENARIO

Manage simple to complex workflows, both for SDI and IP environments. An extensive list of APIs and protocols ensures compatibility with almost any third-party broadcast device.



AGNOSTIC LICENSING MODEL

You don't buy device specific drivers or licenses. Instead you buy a number of device points which you can use for any device, using any of the more than 180 included protocols.



LOWER COST OF OWNERSHIP

Competitively priced options, comprehensive functionality and user-friendliness combine to reduce the need for manual intervention. Cerebrum offers you potentially dramatic savings.



FOR TODAY'S AND TOMORROW'S OPERATION

Besides controlling conventional SDI environments, Cerebrum is fully capable of managing IP infrastructures. With the IP Core license, it even becomes your infrastructure's SDN



Key Features

- Control and monitor multiple workflows with a single system
- Compatible with almost any broadcast device
- Fully customizable user interfaces
- Customize interfaces and configure workflows offline using system snapshots
- Easy Router, Tally, UMD, Mnemonics, Categories and Tie-line configuration
- IP device routing via NMOS IS-04/05, SDP and various native protocols
- SDN and switch orchestration
- Distributed architecture using device servers
- Wide range of customizable hardware LCD-button panels and web-based control interfaces
- Low system requirements, allowing small computers to run the client software application



CCP-1601B



CCP-3201B



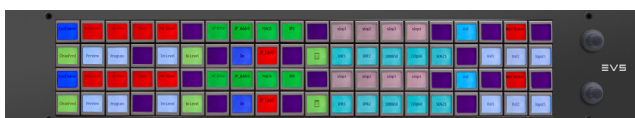
CCP-4801B



CCP-4200C



CCP-6002C



CCP-8002C



CCP-4800B



Cerebrum licenses

- [CRBM SCL](#) Cerebrum Standalone Client
- [CRBM SR](#) Cerebrum Server
- [CRBM RD](#) Cerebrum Redundant Server
- [CRBM CL](#) Cerebrum Client
- [CRBM WEB-CL-5](#) Cerebrum web clients (5 concurrent)
- [CRBM Router S/M/L](#) # of logical router destinations
- [CRBM TL](#) Router Tie-line management
- [CRBM IP Routing S/M/L/XL](#) Routing up to # of IP streams
- [CRBM IP Core M/L/XL](#) # of IP destination to orchestrate
- [CRBM IP Audio Shuffle S/M/L](#) # of automated audio streams
- [CRBM SNMP](#) support Monitor and control SNMP devices
- [CRBM +1 SNMP](#) Add 1 SNMP device
- [CRBM +100 SNMP](#) Add 100 SNMP devices
- [CRBM GD](#) Add 1 Generic device protocol point
- [CRBM Tally](#) Configure and control Tallies and UMDs
- [CRBM Salvos](#) Adds salvos functionality
- [CRBM Schedule S/M/L](#) # of timelines for scheduled events
- [CRBM XML-CI](#) Native XML web socket interface

Cerebrum hardware

- [CCP-1601B](#) 1RU Control panel with 16 LCD-buttons
- [CCP-3201B](#) 2RU Control panel with 32 LCD-buttons
- [CCP-4801B](#) 2RU Control panel with 48 LCD-buttons
- [CCP-4200C](#) 1RU Control panel with 42 LCD-buttons
- [CCP-6002C](#) 2RU Control panel with 60 LCD-buttons
- [CCP-8002C](#) 2RU Control panel with 80 LCD-buttons
- [CCP-4800B](#) 1RU Control panel with 48 LED-buttons
- [CGP-4848](#) 1RU GPI/O unit with 48 GPI inputs and outputs
- [Cerebrum Server](#) Preinstalled 19" 1RU Cerebrum server
- [Cerebrum Redundant Server System](#) 3x preinstalled 19" Cerebrum servers (primary, secondary and witness server)
- [CCS-2650-8-2AC](#) 8-port RS232/422/485 terminal server
- [CRBM LTC](#) Adds an LTC input to a Cerebrum server



Cerebrum protocols lists V2.4

The following tables describe which third party protocols are supported within Cerebrum for the Router Control and Generic Device options. The compatible devices are also listed per device type.

ROUTER CONTROL PROTOCOLS

Manufacturer	Protocol	Products	Mnemonic upload	Ethernet	Serial
EVS	Snell SW-P-08	SynCross/Neuron Shuffle	No	Yes	No
Blackmagic	Videohub Ethernet Protocol v2.3	Videohub	Yes	Yes	No
Calrec	Snell SW-P-08	Hydra2	Yes	Yes	No
ETL	ETL Remote Comms Protocol	NiGMA, Vulcan L Band Routers	Yes	Yes	No
Evertz	Quartz RCP-01	SC-1000, Topaz, Q16-256, Xenon, EQX, Magnum	Yes	Yes	Yes
Grass Valley	ES Switch	Jupiter controller	Yes	Yes	Yes
Grass Valley	Jupiter ASCII	Jupiter controller	No	No	Yes
Grass Valley	Native	SMS7000, Encore, Prelude, Concerto	Yes	Yes	Yes
Grass Valley	GV Triton	Grass Valley Triton	No	No	Yes
Grass Valley	NVision NV9000	NVision NV9000 Controllers	Yes	Yes	No
Grass Valley	NVision Router Control Protocol	NVision 5128, 7512, 8144, 8256, 8500 Routers	No	Yes	No
Grass Valley	NVision Router Control Protocol-C	NVision Compact Router	No	Yes	No
Grass Valley	Pro-Bel SW-P-02	Pyxis, Cygnus	No	Yes	Yes
Grass Valley	Pro-Bel SW-P-08	Aurora, Sirius, Vega, Orbit	Yes	Yes	Yes
Imagine	Leitch pass-through	Panacea, Integrator, Platinum	No	No	Yes
Imagine	Harris LRC	Platinum, IP3 Router, Magellan Controller	Yes	Yes	No
Kramer	Kramer 2K		No	No	Yes
Nevion	V128	VikinX	No	Yes	Yes
Novotronic	Novotronic MAS	Novotronic MAS	No	Yes	No
NTP	Dot	NTP Routers	No	Yes	Yes
Pesa	P1	PERC2000, 3500PRO	No	No	Yes
Pesa	P1N	PERC2000, 3500PRO	No	Yes	No
Ross	NK ASCII	NK	No	No	Yes
Ross	SW-P-08, GV Native	Ultrix	Yes	Yes	No
Sony	Cart/+/++	IXS-6700	No	No	Yes
Sony	NS-Bus	LSM	Yes	Yes	No
Stagetec	Nexus UDP	Nexus	No	Yes	No
Stagetec	Nexus V5	Nexus	No	No	Yes
Studer	Snell SW-P-02	Studer OnAir, Vista	No	No	Yes
Studer	Snell SW-P-08	Studer OnAir, Vista	No	Yes	Yes
Utah Scientific	RCP-1	SC-4 System Controller	No	Yes	Yes
Utah Scientific	RCP-3	SC-4, 40, 400 system Controllers, UDS routers	Yes	Yes	Yes



DEVICE PROTOCOLS

* = new in V2.4

Manufacturer	Protocol	Points	Products	Description	Ethernet	Serial
-	BACNet	5	BACNet compatible devices	Building control and monitoring	Yes	No
-	DMX / Art-Net	2	DMX compatible devices via Art-Net convertor (LSC NX51)	Lighting control	Yes	No
-	Ember/Ember+	1,2 or 5	Ember/Ember+ compatible devices	Device control and routing	Yes	No
-	ICMP	0	Any network device	Network presence	Yes	No
-	MIDI (requires IP to MIDI server)	5	MIDI compatible devices	Control of MIDI devices	No	No
-	ModBus TCP/IP	5	Modbus compatible GPIO devices	GPIO control	Yes	No
-	NMOS IS-04/05	IP rout. license	NMOS compatible IP senders and receivers	IP end-point discovery and control	Yes	No
-	Python API	2	Any device	3rd party driver using Python script	Yes	Yes
-	Raw UDP/TCP/Serial comms	1	Any device	Low level comms	Yes	Yes
-	Raw HTTP comms	1	Any device	Low level comms	Yes	No
-	Raw HTTP client proxy	5	Target any device	Low level comms	Yes	No
-	RestFul API	5	Generic RestFul API support	Generic control API	Yes	No
-	SNMP wrapped as a Generic Device	2	Any Device	Generic control API	Yes	No
-	SNMP	SNMP licence	SNMP compatible devices	Device monitoring and control	Yes	No
-	Wake on LAN (WOL)	2	Any Device	Power on	Yes	No
Adder	DDX API	5	AdderView DDX10, DDX30 KVM	KVM routing	Yes	No
Adder	AIM	5	AdderLink Infinity Manager	KVM routing	Yes	No
AETA	Scoop 5	5	Scoop 5 Codec	Audio Codec	Yes	No
AJA	VTECS Remote Control Protocol	5	FS1	Device control	Yes	No
AJA	AJA FS RestAPI	5	FS2,3,4	Device control and routing	Yes	No
Allen and Heath	iLive TCP/IP	5	iLive, dLive Audio Mixer	Device control and routing	Yes	No
Allen and Heath	Qu	5	Qu Audio Mixer	Device control and routing	Yes	No
Andrew	APC100	5	APC 100 Antenna Controller	Device Control	No	Yes
ApexSat	ModBus over IP	5	APS500 Dish positioner	Satellite Dish Positioner	Yes	No
Arkona/Lawo	vMatrix JSON API	5	vMatrix media network proc	Device control and routing	Yes	No
AppearTV	AppearTV X RestAPI	5	X Platform modular system	Limited device control and routing	Yes	No
AppearTV	AppearTV SOAP XML API	5	XC5000 modular system	Limited device control and routing	Yes	No
Axia	Livewire Routing (LWRP)	5	Axia Livewire compatible devices	Audio Routing	Yes	No
Axia	Livewire Control (LWCP)	5	Axia Livewire compatible devices	Audio device control	Yes	No
Audinate	Dante	10	Audinate Dante compatible devices, incl. support for DDM	Audio routing	Yes	No
Aver	Aver*	5	PTC310/330 Camera*	Control	Yes	No
AVIWEST	Streamhub Rest API	5	Streamhub	Device Control	Yes	No
AWS	Elemental Server API	5	Elemental encoder	Device Control		
Barco	FSN-150 Controller Protocol	5	FSN-1400 Presentation processor	Preset recall	Yes	No
Blackbox	ACX API	5	Blackbox ACXxxx KVM	KVM routing	Yes	No
Blackbox	Boxilla RestAPI	5	Blackbox Boxilla KVM Manager	KVM routing		
Blackmagic	ATEM	5	ATEM Production and Constellation switchers	Routing, tally, device control	Yes	No
Blackmagic	HyperDeck	5	HyperDeck server	Transport control, status	Yes	No
Blackmagic	Multiview	1	Multiview	Routing and labels	Yes	No
Blackmagic	Teranex	5	Teranex video processor	Device control	Yes	No
Calrec	Ember+	5	Apollo, Artemis, Hydra2	vGPIO control	Yes	No
Calrec	Serial Control Protocol	5	Apollo, Artemis, Hydra2	Device, Fader control	Yes	No
Casper CG	Casper CG*	2	GFX*	Control	Yes	No
Cisco	vDCM API	10	vDCM	Stream switching, monitoring	Yes	No
ClearCom	HCI protocol	10	Eclipse	Full Intercom integration	Yes	No
DAD	DAD AX32	5	AX32 Audio Router	Routing and device control	Yes	No
DHD	DHD external control protocol	5	XR/XS/XC/XD Audio Router	Routing and snapshots	Yes	No



PRODUCT SHEET

* = new in V2.4

Manufacturer	Protocol	Points	Products	Description	Ethernet	Serial
DHD	Ember+	5	DHD 52CX Audio Router	Routing and device control	Yes	No
DirectOut	Montone .42	5	Audio routing	Audio stream subscription and routing	Yes	No
ETC	EOS	5	EOS Lighting desk	Lighting control	Yes	No
ETC	Unison	5	Unison Paradigm lighting controller	Lighting control	Yes	No
Evertz	Symphony	5	VIP, MVP	Layout changes	Yes	No
Evertz	M-2100 protocol	5	Axon MCS, Quartz QMC	MC control	Yes	Yes
Evertz	Magnum multiviewer contr*	5	Magnum*	Control of multiviewer	Yes	No
Evertz	RCP-S7 protocol	5	Quartz / Evertz limited hardware panels (CP-1000/2048/3201E)	Hardware Panel control	Yes	Yes
EVS	ACP/ACP2	0	Synapse/Neuron	Device control and monitoring	Yes	No
EVS	EVS DYVI PixTally	5	EVS DYVI Switcher	Switcher Tally	Yes	No
EVS	Ember+	5	EVS DYVI Switcher	Routing, IP Routing, mnemonics and general control	Yes	No
EVS	Ember+	5	EVS XT VIA	IP Routing	Yes	No
EVS	LinX API	5	EVS XT / XT-Via	Configuration, Transport control, clips and timelines	Yes	No
EVS	Overcam	5	EVS Overcam	Control	Yes	No
EVS	BFE Tally Link	2	EVS X ONE Server	Tally and Source names	Yes	No
EVS	VDCP	5	EVS XS-Neo	Server Control	Yes	Yes
For-A	HVS Tally	2	HVS / Hanabi switcher	Switcher tally	Yes	No
For-A	Editor protocol	5	HVS / Hanabi switcher	Editor protocol	No	Yes
For-A	FA-1010 Contol	5	FA1010 Video Processor	Device control	Yes	No
Gefen	ExtCuLan	2	EXT-CU-LAN Matrix Controller	KVM routing	Yes	No
Gefen	GTB-HD	2	GTB-HD Series HDMI Matrix	HDMI routing	Yes	No
Gefen	Gefen EXT-CU-LAN	5	EXT-DVIKVM-LANRX	KVM routing	Yes	No
Gigawave	Gigawave DCP	2	Bosch Metal Mickey Camera	Camera control / no tally	No	Yes
GlobalCache	Itach IP2IR	2	Infrared Emitter	Control of IR devices	Yes	No
Grass Valley	ACOS	5	Kayak	Tally	Yes	Yes
Grass Valley	Adv. Media Protocol (AMP)	5	K2 Servers	Server Control protocol	Yes	No
Grass Valley	AMPP protocol*	10	AMPP*	Workflow control and monitoring	Yes	No
Grass Valley	DD35-Net	5	Kayak	Control and Tally	Yes	No
Grass Valley	Densite*	10	Densite*	Device Control	Yes	No
Grass Valley	GVG-100	5	Grass Valley Switchers	Editor protocol	No	Yes
Grass Valley	GV Serial Tally	5	Kalypso, Zodiac	Serial Tally	No	Yes
Grass Valley	GV Editor	5	Kalypso, Zodiac	Control	No	Yes
Grass Valley	MV-821 web socket	5	GV MV-821 multiviewer	Screen geometry only	Yes	No
Grass Valley	iControl Gateway Services	5	Densite modular	Device control and ltd. monitoring	Yes	No
Grass Valley	Kaleido	2	Kaleido M/V's	UMD, Tally and Layout	Yes	No
Grass Valley	Kayenne Contribution Tally	5	Kayenne	Serial Tally	No	Yes
Grass Valley	K-Frame CPL	5	K-Frame	IP IO Control, EMEM, MACRO, Keyers	Yes	No
Grass Valley	K-Frame Ethernet Tally	5	K Frame	Tally only	Yes	No
Grass Valley	LDK Gateway	5	LDK Gateway camera network	Camera cont. RCP routing and Tally	Yes	No
Grass Valley	M-2100 Automation	5	M-2100	Control	No	Yes
Grass Valley	M-2100 Tally	5	M-2100	Tally	No	Yes
Grass Valley	MPK	5	GV UMDs (RP1/2/3) - not panels!	UMD and Tally	No	Yes
Grass Valley	NVision panel protocol	5	NV9640, 9640A, 9641A, 9642 9654	Hardware Panel control	Yes	No
Grass Valley	Oxtel Automation Protocol	5	Imagestore i7500, LDK-3901, DSK-3901	Device control	Yes	No
Guntermann & Drunk	CatCenter NEO	5	CatCenter NEO	KVM routing	Yes	No
Haivision	SRT Gateway	5	SRT Gateway	Limited SRT routing	Yes	No
Harmonic	Oxtel Automation	5	ChannelPort	Device control	Yes	No
Harmonic	SpectrumXe SOAP API	5	SpectrumXE	Start/Stop playlist primary overlay	Yes	No
Harmonic	Fuze 1 SOAP API	2	Fuze	Input switch tally	Yes	No
Harris	Zandar Z Protocol	5	Harris Predator	MV Preset change, UMD, Tally	Yes	No
IHSE	Blackbox ACX API	5	Draco Tera KVM	KVM routing	Yes	No
Image Video	Image Video UMD client	2	Image Video TallyLink UMD's	UMD/Tally	No	Yes
Image Video	UMD server/sink	2	Evertz Magnum	UMD/Tally	No	Yes



PRODUCT SHEET

* = new in V2.4

Manufacturer	Protocol	Points	Products	Description	Ethernet	Serial
Imagine Comm.	Epic Multiviewer*	5	Epic*	Control of multiviewer	Yes	No
Imagine Comm.	VDCP	5	Servers	Server transport control	Yes	Yes
Imagine Comm.	CCS Protocol	1 ~ 10	X50, X75, X100, Selenio, 6800+, IP3	Device control and monitoring. Points dependant on #objects	Yes	No
Imagine Comm.	SNP Rest API	5	SNP models: processor, MV, etc.	Control/monitoring	Yes	No
JLCooper	eBox	2	eBox	GPIO in/out	Yes	No
JLCooper	FaderMaster	2	FaderMaster 4/100, 8/100 and Eclipse MX Midnight	Control Surface	Yes	Yes
JVC	PS-4XX monitor	1	JVC ProVerite PS-420W, 470W monitor	Power/Input Selection	No	Yes
JVC	GM-5XX monitor	1	JVC GM-552, DTVxxG monitors	Power/Input Selection	No	Yes
KVM tec	KVM tec RestAPI	5	KVM tec Switching Manager	KVM Routing, mnemonics	Yes	No
Lawo	Remote MNOPL	5	MC ²	Audio Console Routing, control and meters	Yes	No
Lawo	Ember+	5	V Pro 8, v_Matrix, A_line/A_mic 8, Power Core, A_UHD Core	Routing and parameter control, status	Yes	No
Masterplay	Remote Text prot.	5	OnAir server	Server transport control	Yes	No
Media Excel	HMS SOAP API	5	Hero Management System	Device control	Yes	No
Merging Tech	Merging RestAPI	5	Horus/Anubis	Device control	Yes	No
NEC	External Control P Series	1	P series Monitors	Power/Input Selection	No	Yes
Nevion	VideolPath RestAPI	40	VideolPath	IP orchestration/routing based on profiles/tags	Yes	No
Nevion	Virtuoso RestAPI v1	5	Virtuoso	IP Routing, control, status	Yes	No
NewTek	NDI Routing	5	n/a	Virtual NDI Router	Yes	No
NMOS	IS-07	5	Pebble Marina Automation	Automation control/status (now/next/tc)	Yes	No
OnHertz	Artisto	5	Artisto	Audio mixer control	Yes	No
Panasonic	AV-HS450 Interface	5	AV-HS450 Switcher	Switcher routing and tally	Yes	No
Panasonic	AV-HS7300 Interface	5	AV-HS7300 Switcher	Switcher routing and tally	Yes	No
Panasonic	HD Integrated Camera interface	5	AW-HE40,HE42,HE50,HE60,HE70,UE70,HE120,HE130,UE150 cams	PTZ control	Yes	No
Panasonic	Remote Camera Control Interface	2	AW-RP50, AW-RP120, AW-RP150	Camera, Group, Port Selection	Yes	No
Panasonic	HD intergr. camera server interface	5	AW-RP50, AW-RP120, AW-RP150	Camera control re-direction/routing	Yes	No
Panasonic	PJLink	5	Panasonic compatible projectors	Basic device control, power, input, vol, etc	Yes	No
Penta	RCP-1806	1	HD2LinePro	Tally/UMD	Yes	No
Plura	Timer Request Prot.	5	Plura SPT	Studio Timer control/status	Yes	No
Pro-Bel	SW-P-06	5	Pro-bel BPS hardware panels	Hardware panel control	No	Yes
Pro-Bel	SW-P15	2	Serial Cues	Bi-directional Tally	Yes	Yes
Pro-Bel	SW-P-100	5	Automation	Scheduled event notification	Yes	No
Quintech	QEC	5	Quintech QRM	Routing	Yes	No
Research Concepts	RC-2000A	5	RC2000A Dual Axis Antenne controller	Device control	No	Yes
RGB Spectrum	Mediawall 1900	1	Mediawall 1900	Control	Yes	No
Riedel	RRCS	10	Artist	Control	Yes	No
Riedel	Ember+	5	MediorNet	Control and routing	Yes	No
Riedel	Muon Rest API (Embrionix emSFP Rest)	2	MuON (Encap/Decap)	Control and routing	Yes	No
Riedel	Connect Trio Command	5	Connect Trio	ISDN Control	Yes	No
Riedel	NMOS IS-07	5	Smartpanels RSP-1216/1232	Cerebrum control surface on intercom panel	Yes	No
Rohde and Schwarz	SCPI	2	FSL3 Spectrum analyser	Device control	Yes	No
Rohde and Schwarz	Prismon Multiviewer API	5	Prismon Multiviewer	Preset layout selection	Yes	No
Ross	Combined RossTalk and TSLv5	5	Acuity	Switcher Routing / Tally / UMD / Key Control etc.	Yes	No
Ross	Combined RossTalk and TSLv3.1	5	Carbonite, Carbonite Black, Ultra	Switcher Routing / Tally / UMD / Key Control etc.	Yes	No
Ross	GVG-100	5	Acuity, Carbonite	Editor protocol	No	Yes
Ross	Xpression RossTalk	2	Xpression	Command Protocol - no status	Yes	No



PRODUCT SHEET

* = new in V2.4

Manufacturer	Protocol	Points	Products	Description	Ethernet	Serial
Ross	openGear	10	openGear compatible products	Device control	Yes	No
Rotronics	Rotronics CF2000	5	CF2000	GPIO control, status	Yes	No
RTS/Telex	AZEdit	10	RTS Cronus, Zeus, Adam	Intercom control	Yes	No
Samsung	Samsung MDC*	1	Multidisplay*	Switching screens on/off	Yes	No
SDNsquare	GRID RestAPI	150	SDNsquare GRID	Control/status of SDN layer	Yes	No
Shotoku	T Computer Auto Remote	5	TR-XT	Remote Camera control	Yes	No
Skaarhoj	Skaarhoj RAW	5	Skaarhoj hardware panels (Control Duo, Fly Uno/Duo, Quick Pad/Bar, RCPV2, Micro audio)	Hardware panel control	Yes	No
Sky	Remote control	2	Sky Q Box	Remote control, channel selection	Yes	No
Skyline	Dataminer SOAP API	5	Dataminer	Device list read/limited object control	Yes	No
Snell	Kahuna K360 Tally Protocol / TSL V3.1	5	Snell Kahuna switcher	Combined Tally, UMD	Yes	No
Snell	Kahuna K360 Macro	1	Snell Kahuna switcher	Macro recall	Yes	No
Snell	RollCall	2 or 10	IQ, Siruis Hybrid routers, Kudos	Generic Snell protocol	Yes	No
Sonifex	DHY04	5	DHY04 TBU	Device control	Yes	No
Sony	9-pin	5	Blackmagic Hyperdeck, Sony BVS3000, etc	VTR transport control	No	Yes
Sony	CNA-1	5	Sony CNA-1 (MSCN option required)	Audio mic gain, format changes	Yes	No
Sony	MVS X Serial Tally	5	MVS-7000X/8000X	Serial Tally	No	Yes
Sony	MVS Serial Tally	5	MVS-8000,DVS-9000 (DCU)	Serial Tally	No	Yes
Sony	MVS RS-422A	5	MVS-8000,DVS-9000 (Gen.)	Serial Tally	No	Yes
Sony	PVM-2541 Interface E	1	BVM/PVM Monitors	Monitor Power	Yes	No
Sony	VISCA	5	BRC H700, Z700	PTZ Cmaera control	Yes	Yes (m-drop)
Sony	XVS Serial Tally	5	XVS-6000/7000	Switcher Tally, Bus control, panel mnmnics	Yes	Yes
Stagetec	Nexus UDP	5	Audio processor	Routing and DSP control	Yes	No
Studer	Ember	5	Studer Vista Audio Mixer	In/Out faders, delays, mutes, snapshot rcl	Yes	No
TAG	MCM9000 soap api v2, v4	5	MCM9000 Multiviewer	Mon.Statistics, IP routing, control	Yes	No
TC Electronic	D22 Remote Control	1	D22 Broadcast Delay	Preset, delay, bypass control	No	Yes
Technolution	SigmaXG API	40	SigmaXG	KVM routing	Yes	No
Tektronix	Prism API	5	Prism	Device Control	Yes	No
Telemetrics	RCCP API	5	Robotic camera control panel	Camera show recall / status		
Telos	LWCP - extensions	5	Vx Enterprise VoIP	SIP device control	Yes	No
Trilogy	Ember+	5	Gemini Intercom	Intercom control	Yes	No
TSL/EVS	TallyLink-V3 (Tx/Rx) TSL UMD V3.1	2	Cerebrum, 3rd party control systems	Bi directional exchange of UMD/ Tally	Yes	Yes
TSL/EVS	TallyLink-V5 (Tx/Rx) TSL UMD V5	2	Cerebrum, third party control systems	Bi directional exchange of UMD/ Tally	Yes	No
TSL/EVS	GPIOLink (Tx/Rx) TSL UMD V5	1	Cerebrum, third party control systems	Bi-directional exchange of Tally only	Yes	No
TSL	TSL UMD V3.1/V4.0	1 or 2	TSL UMDs	UMD and tally	Yes	Yes
TSL	TSL UMD V5	2	EVS GQW/MGG/MGU, TSL, GV KX/ MX, Evertz VIP/MVP	UMD and tally	Yes	No
VisLink	Diversity Remote Protocol	5	Diversity	Device control	Yes	No
VisLink	MVL-HD2 Receiver	5	MVL-HD2 Receiver	Device control	Yes	No
VisLink	MVL-HD2 Tx Protocol	5	MVL-HD2 Transmitter	Device control	Yes	No
VizRT	Pb Listener	2	Media Sequencer	Simple macro (load/start/stop) control	Yes	No
VizRT	MSE RestAPI	5	Media Sequencer	Graphics playlists, selection ctrl/ status	Yes	No
Vutrix	Vutrix Network	1	Vutrix monitors/Quad splits	UMD/Tally input source	Yes	No
Wohler	iAM API	3	iAM monitor	Preset recall	Yes	No
Yamaha	MIDI (requires IP to MIDI device server)	5	DM-1000	Device control	No	No



PRODUCT SHEET

* = new in V2.4

DEVICE PROTOCOLS BY DEVICE TYPE

Antenne Controllers	GPIO	Master Control
Andrew APC100	EVS CGP-4848	Axon MCS
ApexSat APS500	JLCooper eBox	Evertz EMC, Quartz QMC
Research Concepts RC8000A	Rotronics CF2000	Grass Valley Imagestore IS750
Audio mixers	Graphics Engines	Grass Valley M-2100 control and tally
Allen and Heath DLive audio console	Casper CG*	Microwave Transmission
Allen and Heath iLive audio console	Ross Xpression	VisLink Diversity
Allen and Heath Qu audio console	VizRT MSE	VisLink MVL-HD2 TX/Rx
Calrec Apollo, Artemix, Hydra2	Hardware Panels	Modular Products
DHD 52XC/XR/XS/XD	Evertz Panels (using -S7) CP1000E, 2048E, 3201E	AppearTV NX5000, X Platform
Lawo Nova, MC²	NVision Panels	EVS Synapse
OnHertz Artisto	Pro-Bel Panel protocol SW-P-05/6 for BPS panels	GV Densite*
Stagetec Nexus Routing/DSP control	JLCooper Fadermaster 4, 8/100, Eclipse MX	GV/Snell IQ (via RollCall)
Studer OnAir 1500/3000 (Ember)	Riedel SmartPanels RSP-1216/1232	Imagine 6800+, Selenio, SNP
Studer Vista (Ember)	Skaarhoj Control Duo, Fly Uno / Duo, RCPV2, Micro audio, QuickBar, Quick Pad	Ross OpenGear
Yamaha DM1000 (over MIDI)	ISDN/Codec	Monitors
Audio Monitoring	AETA Scoop5	JVC
Wohler iAM	Riedel Connect Trio protocol	NEC
Audio processing	Interface control	Penta
Axia Livewire	Grass Valley iControl Gateway/Densité	Sony BVM/PVM
Audinate Dante	Riedel Mediornet	Samsung MDC*
DAD AX32	Ross OpenGear	Vutrix, Vutrix Quad
Lawo A_Line, A_mic8, Power core, A_UHD Core	Snell Roll Call	Multiviewers
Merging Horus/Anubis	Intercom	Blackmagic Multiview
TC Electronics D22 Delay unit	Clearcom Eclipse	Evertz VIP, MVP, Magnum*
Telos VX VoIP talkshow system	Riedel Artist RRCS protocol	GV/Miranda Kaleido (presets / UMD). MV-821
Automation	RTS Cronus, Zeus, Adam	Harris Predator
Snell PBAK	Trilogy Gemini (Ember protocol)	Imagine Epic Multiviewer*
Building management	KVM switches	RGB Spectrum Mediawall (Input)
BACnet	Adder Infinity KVM Switch AIM	R&S Prismon
Camera control	Adderview DDX10,30	TAG MCM9000 Control/Monitoring
Aver PTC310/330 camera control*	Blackbox ACX, Boxilla	Protocols
Gigawave camera control protocol	Gefen EXT-CU-LAN	Ember/Ember+
Grass Valley LDK Gateway	Guntermann & Drunck KVM Switch	ICMP for simple ping devices
Panasonic AW-RP450, RP120 Controller	IHSE Draco Tera	MIDI
Panasonic AW-HE Cameras	KVM tec	ModBus TCP/IP
Shotoku Remote Camera Control	Technolution SigmaCP	Python (scripted) protocol
Sony CNA-1 gateway	Lighting	'Raw' UDP/TCP/Serial for 'simple' devices
Sony VISCA Cameras	Art-Net (DMX512) lighting	RestFul API
Telemetrics RCCP	ETC EOS Lighting console	Wake on LAN (WoL)
CiaB	Management Systems	Projectors
Harmonic Fuze-1	Skyline Dataminer	Panasonic PJLink
Encoders		
AWS Elemental		

* = new in V2.4

Routers

DirectOut Montone .42
Gefen GTB-HD HDMI Matrix
Newtek NDI Routing
Riedel MediorNet
Quintech QRM

SaaS Platforms

GV AMPP*

SDN/IP orchestrators

Nevion VIdеоPath
SDNsquare GRID

Servers/VTRs

Atomos Shogun Studio
Blackmagic Hyperdeck
EVS XT-VIA, XS-VIA, XS-NEO
Grass Valley AMP
Imagine VDCP protocol
Masterplay OnAir
Media Excel Hero
Sony 9 pin protocol

Set Top Box

Sky Q Receiver

Studio Timers

Plura SPT

Switchers

Blackmagic ATEM (Studio/Constellation)
EVS DYVI
For-A Hanabi tally and editor protocol
Grass Valley Kaleido remote control protocol
Grass Valley K Frame Tally and control protocols
Grass Valley Kayak DD35-Net
Grass Valley Karrera, Kayenne, Zodiak Tally
Grass Valley (Snell) Kahuna, Kula
Panasonic AV-HS450
Ross Acuity, Carbonite (Normal, Black, Ultra)
Ross Vision Switchers (GV Serial contribution Tally)
Sony MVS/DVS/XVS switcher Tally/editor protocol
TBU
Sonifex DHY-04

Test Instruments

Tektronix Prism
Rohde Schwarz FSL3 Spectrum Analyser

UMD/Tally

Pro-Bel SW-P-15 Serial cue protocol
Grass Valley RP 1/2/3 - MPK
Image Video UMD
Image Video TallyLink (server/sink)
Tally link protocol (based on TSL V3.1)
TSL UMD protocol V3.1, V4 and V5

Video Processors

AJA FS1,2,3,4
Arkona / Lawo vMatrix
Barco FSN-1400
Blackmagic Teranex
Cisco vDCM
EVS Neuron
For-A FA1010
Imagine SNP
Lawo vPro8
Nevion Virtuoso



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