



Datasheet of Video Wall Controller- VWC2-HP series (For Full HD and 4K UHD video wall):

Chassis

Order Code:	Size:	Description:	Input Cards:	Output Cards:	Control Cards (Default+ Redundant):	CMC*:	PSUs (Default+ Redundant):	Power (W)	Net Weight:	Shipping Weight	Net Dimensions (LDH mm)	Shipping Dimensions (LDH mm)
DB-VWC2-HP-FR3K	3U	3U Chassis, up to 6x input cards, 2x output cards.	6	2	1+0	1	1+0	40	8.2 kg	10.5 kg	440 x 325 x 133	570 x 470 x 290
DB-VWC2-HP-FR4K	4U	4U Chassis, up to 8x input cards, 3x output cards.	8	3	1+1	1	1+1	40	9.8 kg	12.3 kg	440 x 325 x 178	570 x 470 x 320
DB-VWC2-HP-FR6K	6U	6U Chassis, up to 14x input cards, 5x output cards.	14	5	1+1	1	1+1	60	12.6 kg	15.1 kg	440 x 325 x 266	560 x 460 x 400
DB-VWC2-HP-FR8K	8U	8U Chassis, up to 15x input cards, 10x output cards.	15	10	1+1	1	1+1	95	16.8 kg	20.7 kg	440 x 325 x 355	590 x 570 x 500
DB-VWC2-HP-FR14K	14U	14U Chassis, up to 29x input cards, 10x output cards.	21	18	1+1	1	1+3	155	29.4 kg	35.0 kg	440 x 460 x 622	590 x 570 x 780
DB-VWC2-HP-FR26K	26U	26U Chassis, up to 42x input cards, 36x output cards.	42	36	1+1	2	1+3	210	54.6 kg	63.0 kg	440 x 460 x 1154	600 x 570 x 1310

Input Cards

Order Code:	Port Type:	Description:	Ports Qty.	Signal Type:	Resolution:	Power (W)	Net Weight:	Shipping Weight	Net Dimensions (LDH mm)	Shipping Dimensions (LDH mm)
DB-VWC2-HP-IC-DVI4	DVI(Single Link)	4 channels SL-DVI input card.	4	DVI-I	Up to 1920x1200/60Hz	10.3	0.3kg	/	/	/
DB-VWC2-HP-IC-DDVI2	DVI(Dual Link)	2 channels DL-DVI 4K input card.	2	DL-DVI-D	Up to 3840x2160/30Hz	10.3	0.3kg	/	/	/
DB-VWC2-HP-IC-HDMI4	HDMI	4 channels HDMI HD input card.	4	HDMI1.3	Up to 1920x1200/60Hz	11.3	0.3kg	/	/	/
DB-VWC2-HP-IC-4KHDMI2	4K HDMI	2 channels HDMI 4K input card.	2	HDMI1.4	Up to 3840x2160/30Hz	10.3	0.3kg	/	/	/
DB-VWC2-HP-IC-DP4	DP 1.0	4 channels DP HD input card.	4	DP 1.0	Up to 1920x1200/60Hz	12	0.3kg	/	/	/
DB-VWC2-HP-IC-4KDP2	DP 1.1	2 channels DP 4K input card.	2	DP 1.1	Up to 3840x2160/30Hz	12	0.3kg	/	/	/
DB-VWC2-HP-IC-HDBT4	RJ45	4 channels HDBT HD input card.	4	HDBaseT	Up to 1920x1200/60Hz	23	0.3kg	/	/	/
DB-VWC2-HP-IC-4KHDBT2	RJ45	2 channels HDBT 4K input card.	2	4K HDBaseT	Up to 3840x2160/30Hz	23	0.3kg	/	/	/
DB-VWC2-HP-IC-SDI4	SDI	4 channels SDI input card.	4	SDI	Up to 1920x1080/60Hz	12	0.3kg	/	/	/
DB-VWC2-HP-IC-VGA4	VGA	4 channels VGA input card.	4	VGA	Up to 1920x1200/60Hz	14	0.3kg	/	/	/
DB-VWC2-HP-IC-FIBER4	Fiber	4 channels Fiber input card.	4	Fiber	Up to 1920x1200/60Hz	20	0.3kg	/	/	/
DB-VWC2-HP-IC-4KFIBER2	Fiber	2 channels 4K Fiber input card.	2	4K Fiber	Up to 3840x2160/30Hz	20	0.3kg	/	/	/
DB-VWC2-HP-IC-IPH2	RJ45	2 channels IP input card.	2	IP	Up to 1920x1080/30Hz	25	0.3kg	/	/	/
DB-VWC2-HP-IC-4KIPH2	RJ45	2 channels 4K IP input card.	2	IP	Up to 4000x3000/25Hz	26	0.3kg	/	/	/
DB-VWC2-HP-IC-AVCN4	RJ45	4 channels AVCNET input card.	4	NET	Up to 1920x1200/60Hz	26	0.3kg	/	/	/
DB-VWC2-HP-IC-4KAVCN2	RJ45	2 channels 4K AVCNET input card.	2	NET	Up to 3840x2160/30Hz	26	0.3kg	/	/	/
DB-VWC2-HP-IC-4K60HDMI1	4K60 HDMI	1 channel 4K60 HDMI input card.	1	HDMI 2.0	Up to 3840x2160/60Hz	20	0.3kg	/	/	/
DB-VWC2-HP-IO-AUDIO8	BNC	8 channels video input card.	8	Phoenix		12	0.3kg	/	/	/
DB-VWC2-HP-IC-VIDEO4	BNC	4 channels video input card.	4	CVBS	Up to 720x480/720x576	14	0.3kg	/	/	/

Output Cards

Order Code:	Port Type:	Description:	Ports Qty.	Signal Type:	Resolution:	Power (W)	Net Weight:	Shipping Weight	Net Dimensions (LDH mm)	Shipping Dimensions (LDH mm)
DB-VWC2-HP-OC-DVI4	DVI(Single Link)	4 channels SL-DVI output card.	4	DVI	Up to 1920x1200/60Hz	27	0.3kg	/	/	/
DB-VWC2-HP-OC-HDMI4	HDMI	4 channels HDMI output card.	2	HDMI 1.3	Up to 1920x1200/60Hz	25	0.3kg	/	/	/
DB-VWC2-HP-OC-4KHDMI4	4K HDMI	4 channels HDMI output card.	4	HDMI 1.4	Up to 3840x2160/30Hz	40	0.3kg	/	/	/
DB-VWC2-HP-OC-4K60HDMI2	4K60 HDMI	2 channels 4K60 HDMI output card.	4	HDMI 2.0	Up to 3840x2160/60Hz	40	0.3kg	/	/	/
DB-VWC2-HP-OC-DP4	DP	4 channels DP output card.	4	DP 1.0	Up to 1920x1200/60Hz	23	0.3kg	/	/	/
DB-VWC2-HP-OC-4KDP4	4K DP	4 channels DP output card.	4	4K DP	Up to 3840x2160/30Hz	40	0.3kg	/	/	/
DB-VWC2-HP-OC-HDBT4	HDBaseT	4 channels HDBaseT output card.	4	HDBaseT	Up to 1920x1200/60Hz	35	0.3kg	/	/	/
DB-VWC2-HP-OC-4KHDBT4	HDBaseT	4 channels HDBaseT output card.	4	4K HDBaseT	Up to 3840x2160/30Hz	44	0.3kg	/	/	/

DB-VWC2-HP-OC-SDI4	SDI	4 channels SDI output card.	4	SDI	Up to 1920x1080/60Hz	26	0.3kg	/	/	/
DB-VWC2-HP-OC-JHDMI4 *	HDMI	4 channels HDMI output card.	4	HDMI 1.3	Up to 1920x1200/60Hz	40	0.3kg	/	/	/
DB-VWC2-HP-OC-J4KHDMI4 *	4K HDMI	4 channels 4K HDMI output card.	4	HDMI 1.4	Up to 3840x2160/30Hz	40	0.3kg	/	/	/
DB-VWC2-HP-OC-J4K60HDMI2 *	4K60 HDMI	2 channels 4K HDMI output card.	4	HDMI 2.0	Up to 3840x2160/60Hz	40	0.3kg	/	/	/
DB-VWC2-HP-OC-J4KHDMI1	4K HDMI	1 channel 4K HDMI output card, 16 layers.	4	HDMI 1.4	Up to 3840x2160/30Hz	40	0.3kg	/	/	/
DB-VWC2-HP-OC-JDVI4 *	DVI	4 channels DVI output card.	4	DVI	Up to 1920x1200/60Hz	35	0.3kg	/	/	/
DB-VWC2-HP-OC-JHDBT4	HDBaseT	4 channels HDBaseT output card.	1	HDBaseT	Up to 1920x1200/60Hz	39	0.3kg	/	/	/
DB-VWC2-HP-OC-J4KHDBT4	4K HDBaseT	4 channels HDBaseT output card.	2	4K HDBaseT	Up to 3840x2160/30Hz	44	0.3kg	/	/	/
DB-VWC2-HP-OC-VGA4	VGA	4 channels VGA output card.	2	VGA	Up to 1920x1200/60Hz	25	0.3kg	/	/	/
DB-VWC2-HP-OC-VIDEO4	BNC	4 channels CVBS output card.	4	CVBS	Up to 720x480/720x576	25	0.3kg	/	/	/
DB-VWC2-HP-OC-4KFIBER4	LC	4 channels 4K FIBER output card.	4	4K Fiber	Up to 3840x2160/30Hz	40	0.3kg	/	/	/
DB-VWC2-HP-OC-IP1	RJ45	1 channel IP output card.	4	IP	1080P/30Hz	29	0.3kg	/	/	/
DB-VWC2-HP-OC-AVCN4	RJ45	4 channels AVCNET output card.	4	Net	Up to 1920x1200/60Hz	30	0.3kg	/	/	/
DB-VWC2-HP-OC-NPC	RJ45	1 channel IP Network Preview card.	1	IP	/	29	0.3kg	/	/	/

Control Card

Order Code:	Port Type:	Description:	Signal Type:	Availabel chassis:	Power (W)				
DB-VWC2-HP-CC	RJ45, RS232	Control Card.	Control	4U, 6U, 8U, 14U, 19U	7.2	0.3kg	/	/	/

Function Card

Order Code:	Port Type:	Description:	Signal Type:	Availabel chassis:	Power (W)				
DB-VWC2-HP-FC-CB	DVI	4 channels DVI Confidence Mornitoring Card	DVI	4U, 6U, 8U, 14U, 19U	40	0.3kg	/	/	/

PSU

Order Code:	Power In:	Description:	Power Out:	Rate:	Availabel chassis:	Power (W)			
DB-ACM-PSU-460W	AC 200-240V	PSU (Power Supply Unit.)	DC 12V	460 W	4U, 6U, 8U, 14U, 19U	460	/	/	/

Video Processing		Background Image		General Spec	
Pure Hardware Structure, no OS inside	Yes	Image size:	Up to 8K, 128M	Operating Temperature	0° to +40° C
Parrallel Processing Architecture	Yes	Image type:	JPEG, BMP	Storage Temperature	minus 10° to 70° C
Digital Sampling	24bit, 8 bits per color	Control	D9 Female Connector	Operating Humidity	10% to 85%, Non-condensing
Colors	8 bit processing, 4:4:4			Storage Humidity	10% to 90%, Non-condensing
Resolution	Up to 4k input (3840*2160@60) and 4k output (3840*2160@60)	RS232	IP	MTBF	100,000 hrs
Data Rate	20Gbps per input slot, 80Gbps per output slot				
Source Switching Response	≤20ms				
Window Creating Response	≤16ms				
Scenario Recalling Response	≤16ms				

Note:

1. NPC: means Network Preview Card, serves to preview input source content and video wall display via control interface.
2. CMC: means Confidence Monitoring Card, serves to monitor up to 4x video wall display via local monitor.
3. Control Card: all chassis are populated with 1x default control card, redundant control card is optional for purchase.
4. PSU: All chassis are populated with 1x default PSU, redundant PSU is optional for purchase, 3U chassis not support redundant.
5. DB-VWC2-HP-IC-IPH2: Support H.265 protocol, per port can decode 2x 4000x3000/25Hz IP streaming, or 16x 1920x1080/30Hz with quad-view display.
6. DB-VWC2-HP-OC-JHDMI4, DB-VWC2-HP-OC-J4KHDMI4, DB-VWC2-HP-OC-JDVI4: J-series output card with 4x physical port per card, support 8x layers per output, but only 2x ports available (1,3 or 2,4), the other 2x ports are duplication.