

2018

AVOIP COMPARISON GUIDE

MANUFACTURER	DISTRIBUTORS	PRODUCT NAME	NETWORK SPEED	VIDEO SUPPORT	COMPRESSION TYPE	COMPRESSION RATIO	LATENCY (END TO END)	CONTENT ENCRYPTION	SCALING	TRANSCIVER	HDMI/HDCP VERSION
	Madison Technologies www.madisontech.com.au	PB9000	1GbE	4K60 4:2:0			16-33ms	✓	✓		HDMI 1.4/ HDCP 2.2
	Madison Technologies www.madisontech.com.au	VE8950	1GbE	4K30 4:4:4	Proprietary		1-2 frames	✓	✓		HDMI 1.4a/ HDCP 1.4
		VE8900	1GbE	1080p60	Proprietary		1-2 frames	✓	✓		HDMI 1.4a/ HDCP 1.4
	Midwich Australia www.midwich.com.au	OMNISTREAM PRO	1GbE	4K60 4:4:4	SMPTE VC-2		<1/2 frame	✓	✓		HDMI 1.4/ HDCP 2.2
	AV Supply Group www.avsupplygroup.com.au	IPX-TC1-C	10GbE	4K30 4:4:4/4K60 4:2:0	Uncompressed	0	0	✓		✓	HDMI 1.4/ HDCP 1.4
		IPX-TC2-C	10GbE	4K60 4:4:4 HDR	Proprietary	1.3:1	3ms (with scaling)	✓	✓	✓	HDMI 2.0/ HDCP 2.2
		IPX-TC1-F	10GbE	4K30 4:4:4/4K60 4:2:0	Uncompressed	0	0	✓		✓	HDMI 1.4/ HDCP 1.4
		IPX-TC2-F	10GbE	4K60 4:4:4 HDR	Proprietary	1.3:1	3ms (with scaling)	✓	✓	✓	HDMI 2.0/ HDCP 2.2
	QualiFi www.qualifi.com.au Radio Parts www.radioparts.com.au NAS www.nasaustralia.com.au	IP100UHD	1GbE	4K30 4:4:4 / 4K60 4:2:0	Proprietary	Dynamic	Variable (<1 frame)	✓	✓		HDMI 2.0/ HDCP 2.2
		TXO 102 SO TRANSMITTER	10GbE	4K60 4:4:4	Uncompressed, SDVoE	>1.4:1	100µs	✓	✓		HDMI 2.0/ HDCP 2.2
		RXO 101 SO RECEIVER	10GbE	4K60 4:4:4	Uncompressed, SDVoE	>1.4:1	100µs	✓	✓		HDMI 2.0/ HDCP 2.2
	Amber Technology www.ambertech.com.au	EXT-HDKVM-LANRX	1GbE	1080p/WUXGA	Proprietary	30:1	16ms ~ 144ms	✓			HDMI 1.4/ HDCP 1.4
		EXT-HDKVM-LANTX	1GbE	1080p/WUXGA	Proprietary	30:1	16ms ~ 144ms	✓			HDMI 1.4/ HDCP 1.4
		EXT-UHD-LANS-RX	1GbE	4K60 4:2:0	Proprietary	22:1	16ms ~ 33ms	✓	✓		HDMI 2.0/ HDCP 2.2
		EXT-UHD-LANS-TX	1GbE	4K60 4:2:0	Proprietary	22:1	16ms ~ 33ms	✓	✓		HDMI 2.0/ HDCP 2.2
		EXT-UHDKA-LANS-RX	1GbE	4K60 4:2:0	Proprietary	22:1	16ms ~ 33ms	✓	✓		HDMI 2.0/ HDCP 2.2
		EXT-UHDKA-LANS-TX	1GbE	4K60 4:2:0	Proprietary	22:1	16ms ~ 33ms	✓	✓		HDMI 2.0/ HDCP 2.2

HDMI INPUTS	HDMI OUTPUTS	VGA INPUTS	VGA OUTPUTS	IR IN/OUT	CEC	FIBRE	COPPER	POE/POE+	USB PORTS	RS-232	VIDEOWALL/ VIDEO TILING	MULTIVIEW	IMAGE ROTATION	AUDIO DOWNMIXING	AUDIO STEREO IN/OUT	DOLBY ATMOS	DTS:HD	DTS:X	7.1 PCM	WARRANTY				
1	1	1	1	✓	✓		✓	802.3af	4	✓	8x16		✓	✓	✓					✓	2 years			
1	1	0	0	✓	✓		✓	No	2	✓	8x8		✓	✓	✓						✓	2 years		
1	1	0	0	✓	✓		✓	No	2	✓	8x8		✓	✓	✓							✓	2 years	
2	2	0	0		✓		✓	PoE	4	✓				✓	✓	✓	✓				✓	10 years		
2	1	0	0	✓	✓		✓	PoE	1	✓	4x4			✓	✓							✓	3 years	
2	1	0	0	✓	✓		✓	PoE	1	✓	16x16	✓		✓	✓								✓	3 years
2	1	0	0	✓	✓	✓		PoE	1	✓	4x4			✓	✓								✓	3 years
2	1	0	0	✓	✓	✓		PoE	1	✓	16x16	✓		✓	✓								✓	3 years
1	1	0	0	✓			✓	PoE	0	✓	16x16		✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	2 years
2	0	0	0	✓		✓	✓	No	1	✓	16x16	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	2 years
0	1	0	0	✓		✓	✓	No	1	✓	16x16	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	2 years
0	1	0	0	✓			✓	No	2	✓	No				✓	✓	✓	✓	✓	✓	✓	✓	✓	3 years
1	0	0	0	✓			✓	No	1	✓	No				✓	✓	✓	✓	✓	✓	✓	✓	✓	3 years
0	1	0	0	✓			✓	PoE	0	✓	16x16				✓	✓	✓	✓	✓	✓	✓	✓	✓	3 years
1	0	0	0	✓			✓	PoE	0	✓	16x16				✓	✓	✓	✓	✓	✓	✓	✓	✓	3 years
0	1	0	0	✓			✓	PoE	4	✓	16x16				✓	✓	✓	✓	✓	✓	✓	✓	✓	3 years
1	1	0	0	✓			✓	PoE	1	✓	16x16				✓	✓	✓	✓	✓	✓	✓	✓	✓	3 years

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	Axis AV www.axisav.com.au	THUNDER TH2001E ENCODER	1GbE	4K60 4:2:0	JPEG2000	20:01	<2 frames	✓			HDMI 1.4/ HDCP 2.2	
		THUNDER TH2002D DECODER	1GbE	4K30 4:4:4	JPEG2000	20:01	<2 frames	✓	✓		HDMI 1.4/ HDCP 2.2	
		LIGHTNING LZ1501E ENCODER	10GbE	4K60 4:4:4	Proprietary	None	Variable	✓	✓		HDMI 2.0/ HDCP 2.2	
		LIGHTNING LZ1502D DECODER	10GbE	4K60 4:4:4	Proprietary	None	Variable	✓	✓		HDMI 2.0/ HDCP 2.2	
		LIGHTNING LZ1511E ENCODER	10GbE	4K60 4:4:4	Proprietary	None	Variable	✓	✓		HDMI 2.0/ HDCP 2.2	
		LIGHTNING LZ1512D DECODER	10GbE	4K60 4:4:4	Proprietary	None	Variable	✓	✓		HDMI 2.0/ HDCP 2.2	
	Lightware ANZ www.lightware.com	VINX	1GbE	4K60 4:2:0	Proprietary	25:1-1,000:1	19ms	✓	✓		HDMI 2.0/ HDCP 2.2	
		UBEX	10GbE	4K60 4:4:4	Uncompressed	Uncompressed				✓	✓	HDMI 2.0/ HDCP 2.2
	Connected Media www.connectedmediaaustralia.com.au	VIP-1	1GbE	1080p/60	H.264		<30ms		✓	✓		
	Intellibox www.octavainc.com	PRO DSX	1GbE	4K60 4:2:0	Proprietary	20:1	32ms	✓	✓	✓	HDMI 2.0/ HDCP 2.2	
	Hills www.hills.com.au	NHD100/200 SERIES	1GbE	1,920x1,200/60	H.264/MPEG-4 AVC	Variable	60ms (low latency mode), 250ms (high quality mode)		✓		HDMI 1.4/ HDCP 1.4	
		NHD220	1GbE	1,920x1,200/60 in, 3,840x2,160p/30 out	H.264/MPEG-4 AVC	Variable	60ms (low latency mode), 250ms (high quality mode)		✓		HDMI 1.4/ HDCP 1.4	
		NHD230TX	1GbE	1,920x1,200/60	H.264/MPEG-4 AVC	Variable	Encode latency of 150ms		✓		HDMI 1.4/ HDCP 1.4	
		NHDSW0501	1GbE	1,920x1,200/60	H.264/MPEG-4 AVC	Variable	60ms (low latency mode), 250ms (high quality mode)					HDMI 1.4/ HDCP 1.4
		NHD400 SERIES	1GbE	2,160p/60 4:2:0, 2,160p/30 10-bit (HDR)	JPEG2000	<10:1 (Dynamic)	16ms (60fps), 33ms (30fps)	✓	✓			HDMI 2.0a/ HDCP 2.2
		NHD600 SERIES	10GbE	4K/60 4:4:4, 10-bit (HDR) 4:2:2/4:2:0	SDVoE	None	0ms (GenLock Mode), 1*2 frames (Scaler Mode)	✓	✓			HDMI 2.0a/ HDCP 2.2
	Audio Visual Distributors www.avdistributors.com.au	ZYPER4K	10GbE	4K60 4:4:4	Uncompressed	None	>100µs	✓	✓	✓	HDMI 2.0/ HDCP 2.2	
		ZYPERUHD	1GbE	4K30	JPEG2000	15:1	33ms		✓	✓		HDMI 2.0/ HDCP 2.2

HDMI INPUTS	HDMI OUTPUTS	VGA INPUTS	VGA OUTPUTS	IR IN/OUT	CEC	FIBRE	COPPER	POE/POE+	USB PORTS	RS-232	VIDEOWALL/ VIDEO TILING	MULTIVIEW	IMAGE ROTATION	AUDIO DOWNMIXING	AUDIO STEREO IN/OUT	DOLBY ATMOS	DTS:HD	DTS:X	7.1 PCM	WARRANTY
1	1	0	0	✓			✓	PoE	1	✓	No			✓	✓		✓	✓	✓	
0	1	0	0	✓	✓		✓	PoE	2	✓	16x16		✓	✓	✓		✓	✓	✓	
1	0	0	0	✓			✓	No	1	✓	No	✓		✓	✓		✓	✓	✓	
0	1	0	0	✓			✓	No	2	✓	5x5	✓		✓	✓		✓	✓	✓	
1	0	0	0	✓		✓		No	1	✓	No	✓		✓	✓		✓	✓	✓	
0	1	0	0	✓		✓		No	2	✓	5x5	✓		✓	✓		✓	✓	✓	
1	2	0	0	✓			✓	No	5	✓	8x8		✓				✓		✓	3 years
2	2	0	0	✓		✓		PoE	3	✓	No	✓		✓	✓	✓	✓		✓	3 years
1	1	0	0	✓	✓		✓	PoE	2	✓	No			✓	✓					3 years
1	1	0	0	✓			✓	PoE	1	✓	16x16	✓	✓		✓	✓	✓	✓	✓	2 years
1	1	1	0		✓		✓	PoE	0	✓	10x10			✓	✓					5 years
0	1	0	0		✓		✓	PoE	0	✓	8x8	✓		✓	✓					5 years
1	0	0	0				✓	PoE	0		No			✓	✓					5 years
4	1	1	0		✓		✓	No	0	✓	No			✓	✓					5 years
1	1	0	0	✓	✓		✓	PoE	0	✓	16x16		✓	✓	✓	✓	✓	✓	✓	5 years
1	1	0	0	✓	✓		✓	No	0	✓	5x5			✓	✓	✓	✓	✓	✓	5 years
1	1	0	0	✓		✓	✓	No	3	✓	5x5	✓		✓	✓	✓	✓		✓	3 years
1	1	0	0	✓			✓	PoE+	3	✓	5x5			✓	✓	✓	✓		✓	2 years