

Comparison of MDIN Series

ITEM		MDIN-165	MDIN-241H	MDIN-325 / 325A	MDIN-340	MDIN-380	MDIN-400
Input (Digital Only)	BT.656 [4:2:2]	8/10-bit	8/10-bit	8/10-bit	8/10-bit	8/10-bit	8/10-bit
	BT.601/1120, SMPTE [4:2:2]	16/20-bit	16/20-bit	16/20/24-bit	16/20/24-bit	16/20/24-bit	16/20/32/40-bit
	RGB/YCbCr [4:4:4]	24-bit	24-bit	24-bit	24-bit	24/30/36-bit	12/15/24/30/48-bit
	D1 (BT.656) 4-Ch	X	X	X O	X	O	X
	Max. Pixel Rate	135MHz	135MHz	165MHz	165MHz	165MHz	300MHz
	Dual-Wide / Edge	X	X	X	X	X	O
	Progres. Input	Max. Input 1280 x 1024p	1280 x 1080p	1920 x 1152p, UXGA	1920 x 1152p, UXGA	1920 x 1152p, UXGA	3840 x 2160p30
	Interlaced Input	Max. Internal Proc.	1280 x 1024p	1280 x 1080p	1920 x 1152p, UXGA	1920 x 1152p, UXGA	3840 x 2160p30
		Max. Input 1920 x 1080i	1920 x 1080i	1920 x 1152i	1920 x 1152i	1920 x 1152i	1920 x 1152i
Output	Digital	Max. Internal Proc.	1024 x 1080i	1024 x 1080i	1920 x 1152i	1920 x 1152i	1920 x 1152i
		BT.656 [4:2:2]	X	X	8/10-bit	X	8/10-bit
		BT.601/1120, SMPTE	X	X	16/20-bit	X	16/20/32/40-bit
		RGB/YCbCr [4:4:4]	X	X	24-bit	X	24/30-bit
		D1 (BT.656) 4-Ch	X	X	X O	X	O
		Dual-Wide / Edge	X	X	X	X	O
	Analog (RGB / YPbPr)		X	O	O	O	X
	HDMI / DVI		X	O (ver. 1.2)	X	O (ver. 1.3)	O (ver. 1.3)
	CVBS / SVIDEO		X	O	O	X	O
	Max. Pixel Rate		27MHz	165MHz	165MHz	165MHz	300MHz
	Max. Resolution		CVBS / SVIDEO Only	1920 x 1080p	1920 x 1152p, UXGA	1920 x 1152p, UXGA	3840 x 2160p30
3D NR	Interlaced Input		O	O	X O	O	O
	Progressive Input		X	X	X O	O	O
Cross Color Suppression		NTSC	NTSC	NTSC / PAL	NTSC / PAL	NTSC / PAL	X
Dynamic Contrast Enhancement		Simple	Simple	Full	Full	Full	Full
PIP / POP Display		X	X	X O	O	O	O
4-Ch Display		X	X	X O	O	O	X
Flexible Frame Rate Conversion		O	3-250Hz	3-250Hz	3-250Hz	3-250Hz	3-250Hz
Color Up-Sampling Error Correction		X	X	O	O	O	X
MPEG Noise Reduction		X	X	O	O	O	X
Frame Memory		Embedded SDRAM	Embedded SDRAM	Embedded DDR	Embedded DDR	Embedded DDR	Embedded DDR2
OSD Layer		1 Layer (16 Color)	1 Layer (16 Color)	4 Layers (True Color)	4 Layers (True Color)	4 Layers (True Color)	4 Layers (True Color)
Host Control I/F		I ² C	I ² C	I ² C	I ² C	I ² C / PCI / Parallel	I ² C / SPI
Package		100-ball FBGA (8mm x 8mm)	144-ball FBGA (12mm x 12mm)	144-ball FBGA (12mm x 12mm)	144-ball FBGA (12mm x 12mm)	240-ball FBGA (12mm x 16mm)	256-ball FBGA (14mm x 14mm)