

The 52-5170 SDI module supports the following video formats:

SD-SDI

SD-SDI (SMPTE-259M): Used to transport uncompressed standard-definition digital video.



Note

The 52-5170 module only supports 270MBit/s data rate, PAL and NTSC format!

HD-SDI

HD-SDI (SMPTE-292M): Used to transport uncompressed high-definition digital video.

SMPTE Standard	260M		295M	274M								296M	
	A	B	C	D	E	F	G	H	I	J	K	L	M
Format ⁽¹⁾	1035i	1035i	1080i	1080i	1080i	1080i	1080p	1080p	1080p	1080p	1080p	720p	720p
Frame Rate (Hz)	30	30/M	25	30	30/M	25	30	30/M	25	24	24/M	60	60/M
Sample Rate (MHz)	74.25	74.25/M	74.25	74.25	74.25/M	74.25	74.25	74.25/M	74.25	74.25	74.25/M	74.25	74.25/M
Active Samples per Line and Active Lines per Frame (words x lines) ⁽²⁾	1920 x 1035	1920 x 1035	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080	1280 x 720	1280 x 720
Total Samples per Line and Total Lines per Frame (words x lines) ⁽²⁾	2200 x 1125	2200 x 1125	2376 x 1250	2200 x 1125	2200 x 1125	2640 x 1125	2200 x 1125	2200 x 1125	2640 x 1125	2750 x 1125	2750 x 1125	1650 x 750	1650 x 750

HD-SDI Compatible Video Formats from SMPTE 292M

⁽¹⁾ The format designations follow the industry practice of using the number of active lines per frame plus either the letter "i" indicating interlaced scan or the letter "p" indicating progressive scan. Thus, a format listed as 1080i has 1080 active lines per frame and is interlaced, while a format given as 720p has 720 active lines per frame and is progressive scan.

⁽²⁾ The active samples per line and total samples per line shown are 2-word samples, one word of Y and one word of C. If there are 1920 active samples in a line, then there are 3840 10-bit active words per line after the channels have been interleaved.