



# S1D13xxx Series Epson LCD Controllers

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		Core Voltage [V]	I/O Voltage [V]	Typical Display Resolution	Display Memory	Package	Supported CPU Interfaces	Hardware Function
Model	Panel							
S1D13700	STN	3.3	3.0 to 5.0	320x240 at 4 Gray Scales	32 KB embedded SRAM	TQFP13-64	8-bit parallel	Character- and Graphiclayer, Character Generator
S1D13705	STN, C-STN TFT	2.7 to 3.6	2.7 to 5.5	320x240 at 256 Colors	80 KB embedded SRAM	QFP14-80	8/16-bit parallel	90° Swivel View, Split Screen, Double Buffering, Virtual Display
S1D13706	STN, C-STN TFT	1.8 to 3.6	1.8 to 3.6	320x240 at 256 Colors	80 KB embedded SRAM	TQFP15-100	8/16-bit parallel	90/180/270° Swivel View, Picture in Picture
S1D13A04	STN, C-STN TFT	2.0 2.5	3.3	320x240 at 65K Colors	160 KB embedded SRAM	PFBGA-121 TQFP15-128	16-bit parallel	90/180/270° Swivel View, Picture in Picture Plus, Pixel Doubling, USB 1.1 Client
S1D13A05	STN, C-STN TFT	2.0 2.5	3.3	320x240, 480x272 at 65K Colors	256 KB embedded SRAM	PFBGA-121 QFP5-128	16-bit parallel	
S1D13717	TFT	1.8	3.0	320x240 at 65K Colors	224 KB embedded SRAM	PFBGA-180	16-bit parallel	YUV VGA Camera I/F, JPEG Codec, 2D BitBLT Engine
S1D13715	TFT	1.8	3.0	320x240 at 65K Colors	320 KB embedded SRAM	FCBGA-161 PFBGA-160 QFP8-160	16-bit parallel	YUV VGA Camera I/F, JPEG Codec, 2D BitBLT Engine
S1D13719	TFT	1.8	2.5 3.0	640x480 at 256 Colors	512 KB embedded SRAM	FCBGA-161 QFP8-208	16-bit parallel	YUV SXGA Camera I/F, JPEG Codec, 2D BitBLT Engine
S1D13743	TFT	1.5	1.8 to 3.3	320x240 at 16M Colors 480x272 at 262K Colors	464 KB embedded SRAM	FCBGA-121 QFP20-144	8/16-bit parallel indirect (INTEL 80)	90/180/270° Swivel View Double Buffering Pixel Doubling, Pixel Halving
S1D13742	TFT	1.5	1.8 to 3.3	320x240 at 16M Colors 640x480 at 262K Colors	768 KB embedded SRAM	FCBGA-121 QFP20-144	8/16-bit parallel indirect (INTEL 80)	90/180/270° Swivel View Double Buffering Pixel Doubling, Pixel Halving
S1D13748	TFT	1.5	2.8	640x480 at 16M Colors 800x600 at 65K Colors	1024KB embedded SRAM	PFBGA-121 (QFP under development)	16-bit parallel indirect	90/180/270° Swivel View, Picture in Picture, Bi-Cubic Scaler, Support for 3 Layers
S1D13505	STN, C-STN TFT	2.7 to 5.5	2.7 to 5.5	800x600 at 65K Colors	up to 2 MB external EDO/FPM-DRAM	QFP15-128	8/16-bit parallel	90° Swivel View, Split Screen, Double Buffering, Ink Layer
S1D13506	STN, C-STN TFT, TV, CRT	2.7 to 5.5	2.7 to 5.5	800x600 at 65K Colors	up to 2 MB external EDO/FPM-DRAM	QFP15-128	8/16-bit parallel	90° Swivel View, Split Screen, Double Buffering, Ink Layer
S1D13513	STN, C-STN TFT, TV	1.8	3.3	1024x762 at 16M Colors	up to 64 MB external SDRAM	PFBGA-256 QFP22-208	16-bit par. dir./indirect serial	90/180/270° Swivel View, 4 PWM, 2D BitBLT Engine, Sprite Engine, YUV Camera I/F, Key Scan I/F