

CONSUMER product range

TLCxxxx, TEKxxxx

DISPLAY Integrated Circuits (IC) for Small and medium LCD Panels (1.5" to 7")

TFT-LCD System-On-Chip

Part Number	TCON	Source Driver	Gate Driver	Other	Application	Package	Status*
ASTLC5506A	3.2-34.5MHz PAL/NTSC CCIR-656	-	242/274/290 ch. VG= -7.5V to -12V 12.5V to 23.5V	Horiz. Res. 480-1560 ch. LED DC-DC, ChP, Gamma ROM, PLL, SPI, Zoom, OSD, Contr./ Bright./ Hue/ Sat.	DSC, Car TV, DVC, DVD	COG	ASIC MP
ASTLC5510A	13-27MHz PAL/NTSC CCIR-656	640 ch. 6/8-bit VLCD=3.0-5.5V	242 ch. VG=±12.5V	LED DC-DC, ChP, SPI, VCOM adjustable, Gamma adjustable, Vregulator, Contr./ Bright.	DSC	COG	ASIC MP
ASTLC5512A	6.1-27MHz PAL/NTSC CCIR-656	960 ch. 6/8-bit VLCD=3.0-5.5V	240 ch. VG= -10V/+15V	LED DC-DC, ChP, SPI, VCOM adjustable, Gamma adjustable, Vregulator, Contr./ Bright.	DSC, Printer	COG	ASIC MP
ASTLC5601A	25-30MHz HsVs/DEN Mode	480-600 ch. 6/8-bit VLCD=7.5-14V	-	Cascadable Horiz. res. 600-1024 RGB Vert. res. 300-768 Lines AVDD DC-DC, SPI, DC VCOM adjustable, Gamma Buf., Contr./ Bright.	Electronic Photo Frame, Printer, Notebook	COG	ASIC MP

E-paper Controller and Driver

Part Number	TCON	Source Driver	Gate Driver	Other	Application	Package	Status*
TEK5602A	20MHz (max)	252 ch. 2-bit VDLC= ±15V	94 ch. VG= +40V	Single supply 2.0-3.6V Built in VCOM, temp. Sensor, dual polarity DC-DC	E-TAG	COG	ASIC MP

*Status: ASIC =Custom Circuit, ASSP= Standard Product, DEV= Development, ES= Engineering Samples, MP= Mass Production, PO= Phased Out

To obtain the specifications of our standard products or a quotation for a custom development:

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IT product range

MTSxxxx, MTCxxxx, MTDxxxx, IJPxxxx

Printer and Fan

Motor Drivers

Part Number	Description	Motor	Control	Vsupply	Package	Status*
ASMTS62C19A	2x Full Bridges	Bipolar Stepper	Phase	10V- 40V	DIP-24, SO-24	ASSP MP
MTD6501A/C	3-phase brushless sensoreless fan motor driver	BLCD	Three phases full w ave	2V-14V	SOP8-EP	ASSP ES
MTD6501B/D	3-phase brushless sensoreless fan motor driver	BLCD	Three phases full w ave	2V-14V	MSOP10	ASSP ES

Power Combo ICs

Part Number	Description	Motors		Regulators	Package	Status*
		Type	Vsupply	Vout (Iout)		
ASMTC6301A	Power Combo for Printers including 4 Full Bridges, 3 DC/DC Voltage Regulators, SPI, 8-bit ADC, Protection	a) 4xDC b) 2xDC + 1x Bipolar Stepper	20V- 35V	5V-8V (2.0A) 2.5V/3.3V (1.0A) 1.5V/ 1.8V/ 2.5V (0.6A)	LQFP-64	ASSP MP
ASMTC6302A	Power Combo for Printers including 4 Full Bridges, 3 DC/DC Voltage Regulators, SPI, Protection	a) 4xDC b) 2xDC + 1x Bipolar Stepper c) 2x Bipolar Stepper	20V- 35V	5V-8V (1.6A) 2.5V/3.3V (1.0A) 1.5V/ 1.8V/ 2.5V (0.6A)	LQFP-64	ASSP ES
ASMTC6303A	Power Combo for Printers including 1 Full Bridge and 8 Low Side Sw itches, 2 DC/DC Voltage Regulators, Serial Interface, Protection	a) 1x DC + 2x Unipolar Stepper	18V- 27V	17V-21V (0.6A) 5V (0.7A)	QFN-48	ASSP MP

Printer Head Circuits

Part Number	Description	Vsupply	Regulators			Package	Status*
ASJIP1001A	Driver for 2 Heads w ith 960 Nozzles each. Regulators, PGA, Multi-channels 8 bits A/D	26V- 35V 5V (Analog) 3.3V (I/O)	8V-18V (Head Supply) 15V (Auxiliary)			LQFP-100 Bare Die	ASIC MP
Part Number	Description	Vsupply	VDD	R-On	IOut Max	Package	Status*
ASJIP1002A	Pen Driver w ith 48 Outputs (up to 6 simultaneously ON).	15V- 21V	5V	3Ω	0.5A/ channel	LQFP-64	ASIC MP
Part Number	Description	Vsupply	VDD	Other		Package	Status*
ASJIP1003A	Temperature Detection circuit w ith Pen Identification.	15V- 21V	5V	PWM Modification of the Threshold Temperature.		SOP-20	ASIC MP
IJP1005A	WFP Pen driver w ith 4 to 64 lines selectable (up to 4 simultaneously ON)	9V-24V	5V	Internal pow er-up and chip enable function		LQFP-80	ASSP ES

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INDUSTRIAL product range

TLCxxxx, TXRxxxx

Avionics

Avionics TFT-LCD Source Drivers

Part Number	Channels	VLCD	Fmax	Type	Gray-scale	Interface	Package	Status *
ASTLC5009B	192	5.5 V	35 MHz	Line	6-bit	TTL	TCP	ASIC MP
ASTLC5204A	240	18 V	8 MHz	Line	Analog	RGB	TCP	ASIC MP
ASTLC5101A	480	13.5 V	85 MHz	Dot	8-bit	RSDS	TCP, COF	ASSP MP

Avionics TFT-LCD Gate Drivers

Part Number	Channels	VLCD	Fmax	Other	Package	Status *
ASTLC5304A	240	4V- 27V	100 KHz	Bi-directional Shift Register	TCP	ASIC MP

Medical

Digital X-ray Gate Driver

Part Number	Channels	VLCD	Fmax	Levels	Input	Rds-On	Package	Status *
ASTLC5302A	120	15V- 30V	15 MHz	3	3.3V- 5.0V	100Ω	TCP	ASIC MP

Digital X-ray Read Out IC

Part Number	Channels	Max Range	A/D	Line Read	Data Out	Dynamic Range	Package	Status *
TXR5801A	128	200 Me = 32 pC	128x 16 bits x 125 KSPS	8 μs	LVDS (256MHz)	80 dB	TCP	ASSP DEV

Telecom

Fiber optic wavelength selective switch

Part Number	Channels	Input interface	D/A	Output Range	Output DC offset	Inversion frequency	Package	Status *
TLC5151A	96	SPI	14 bits	±10V	<5mV	1-10KHz	LQFP-128	ASIC ES

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AUTOMOTIVE product range

MTSxxxx

Motor Control

Automotive HVAC Motor Control

Part Number	Description	Vsupply	Motor	Driver	Package	Status*
MTS6401A	MCU 8 bits, SRAM 128 Bytes, OTP 64 Bytes, ROM 4KB, LIN Serial Interface	8V- 18V	1x Bipolar Stepper Motor	2x Full Bridges Rds-ON= 4Ω	SOP-16	ASIC ES

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Phased Out products

ASTLCxxxx, ASMTDxxxx

LCD Panels

Source Drivers

Part Number	Type	Gray-scale	Interface	Channels	VLCD	Fmax	Package	Status*
ASTLC5002A	Dot	6-bits	RSDS	384	12V	65 MHz	TCP, COF	ASSP PO
ASTLC5003A	Dot	6-bits	TTL	384	12V	65 MHz	TCP	ASSP PO
ASTLC5006A	Dot	6-bits	RSDS	384	15V	65 MHz	TCP, COF	ASSP PO
ASTLC5202A	Line	Analog	RGB	402/480	5.5 V	10 MHz	COG	ASSP PO

Gate Drivers

Part Number	Tech.	Other	Channels	VLCD	Fmax	Package	Status*
ASTLC5301A	a-Si	Multi-line addressing	256/263	15V-40V	150 KHz	TCP	ASSP PO

Timing Controllers

Part Number	Tech.	Application	Input Interface	Output Interface	VDD	Frequency	Package	Status*
ASTLC6101A	a-Si	SVGA, XGA, WXGA+	LVDS	1 Pixel, 6-bits RSDS	3.3V	25-85 MHz	TQFP	ASSP PO
ASTLC6201A	a-Si	SXGA, SXGA+	LVDS	4 Pixels, 8-bits TTL	3.3V	40-70 MHz	LQFP	ASSP PO

System-On-Chip

Part Number	TCON	Source Driver	Gate Driver	Other	Application	Package	Status*
ASTLC5502A	5.6-27MHz PAL/NTSC	240/288 ch. 6/8-bit VLCD=3.0-5.5V	240 ch. VG=±12.5V	LED DC-DC, VCOM, Charge Pump (ChP), SPI	DSC	COG	ASIC PO
ASTLC5503A	9.7-24.5MHz PAL/NTSC	480 ch. 6/8-bit VLCD=3.0-3.6V	-	LED DC-DC, VCOM, SPI	DSC	COG	ASIC PO
ASTLC5505A	5.6-27MHz PAL/NTSC CCIR-656	480 ch. 6/8-bit VLCD=3.0-5.5V	240 ch. VG=±12.5V	LED DC-DC, VCOM, ChP, SPI	DSC	COG	ASIC PO
ASTLC5507A	27MHz PAL/NTSC CCIR-656	640 ch. 6/8-bit VLCD=3.0-5.5V	242 ch. VG=±12.5V	LED DC-DC, ChP, SPI, VCOM adjustable, Gamma adjustable, Contr./ Bright./ Hue/ Sat.	DSC	COG	ASIC PO
ASTLC5509A	3.2-27MHz PAL/NTSC CCIR-656	480 ch. 6/8-bit VLCD=3.0-5.5V	240 ch. VG= -6V to -13V 11V to 18V	LED DC-DC, ChP, SPI, VCOM adjustable, Gamma adjustable, Vregulator, Contr./ Bright.	DSC Toys	COG	ASSP PO

Printer and Fan

Motor Drivers

Part Number	Description	Motor	Control	Vsupply	Package	Status*
ASMTD6101	Fan Motor Driver with Speed Detection	BLCD	Single Phase Full-wave	3.2V- 18V	SO-8-EP	ASSP PO

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