

显示用驱动器

TN/STN液晶显示用驱动器系列

P.80

车载时钟驱动器

P.82

TN/STN液晶显示用驱动器系列

LCD用 通用/段码驱动器

低Duty LCD段码驱动器

Part No.	Display (dots)	Outputs		Operating Voltage (V)		Operating Temperature (°C)	Duty	Bias	I/F	EVR	GPO	Independent Blink	LED Driver (port)	PWM Gen.	Keyscan	Package	
		seg.	com.	I/F Power Supply (V _{DD})	LCD Power Supply (VLCD)												
BU9796AMUV	48	12	4	2.5 to 5.5		-40 to +85	1/4	1/3, 1/2	2wire	-	-	-	-	-	-	-	VQFN024V4040
BU9796AFS	80	20	4	2.5 to 5.5		-40 to +85	1/4	1/3, 1/2	2wire	-	-	-	-	-	-	-	SSOP-A32
BU97941FV	104	26	4	1.8 to 3.6	2.7 to 5.5	-40 to +85	1/4, 1/3, Static	1/3	3wire	-	-	-	4	-	-	-	SSOP-B40
BU9795AFV	108	27	4	2.5 to 5.5		-40 to +85	1/4	1/3, 1/2	3wire	-	-	-	-	-	-	-	SSOP-B40
BU97930MUV	108	27	4	1.8 to 3.6	2.7 to 5.5	-40 to +85	1/4, 1/3, Static	1/3	3wire	-	4port	✓	1	1ch 8bit	-	-	VQFN040V6060
BU97931FV	112	28	4	1.8 to 3.6	2.7 to 5.5	-40 to +85	1/4, 1/3, Static	1/3	3wire	-	5port	✓	1	1ch 8bit	-	-	SSOP-B40
BU97960MUV	120	15	8	2.5 to 6.0	2.5 to 6.0	-40 to +85	1/8, 1/4	1/4, 1/3	2wire	✓	-	-	-	-	-	-	VQFN028V5050
BU9795BKV	140	35	4	2.5 to 5.5		-40 to +85	1/4	1/3, 1/2	3wire	-	-	-	-	-	-	-	VQFP48C
BU9795ZKS2	140	35	4	2.5 to 5.5		-40 to +85	1/4	1/3, 1/2	3wire	-	-	-	-	-	-	-	SQFP-T52
BU9797AFUV	144	36	4	2.5 to 5.5		-40 to +85	1/4	1/3	2wire	-	-	-	-	-	-	-	TSSOP-C48V
BU97981MUV	168	42	4	1.8 to 3.6	3.3 to 5.5	-30 to +75	1/4, 1/3, Static	1/3	3wire	-	27port	✓	3	2ch 12bit	-	-	VQFN56AV8080
BU97981KV	196	49	4	1.8 to 3.6	3.3 to 5.5	-30 to +75	1/4, 1/3, Static	1/3	3wire	-	31port	✓	3	2ch 12bit	-	-	VQFP64
BU97981GU	196	49	4	1.8 to 3.6	3.3 to 5.5	-30 to +75	1/4, 1/3, Static	1/3	3wire	-	31port	✓	3	2ch 12bit	-	-	VBGA064T050A
BU9794AKV	200	50	4	2.5 to 5.5	2.5 to 5.5	-40 to +85	1/4	1/3, 1/2	3wire	-	-	-	-	-	-	-	VQFP64
BU9799KV	200	50	4	2.5 to 5.5	2.5 to 5.5	-40 to +85	1/4	1/3, 1/2	2wire	✓	-	-	-	-	-	-	VQFP64
BU97501KV	204	51	4	2.7 to 6.0	4.5 to 6.0	-40 to +85	1/4, 1/3	1/3, 1/2	3wire+KEYOUT	-	4port	-	-	-	5×6 Max 30Key	-	VQFP64
BU97950AFUV	280	35	8	2.5 to 6.0	2.5 to 6.0	-40 to +85	1/8, 1/4	1/4, 1/3	2wire	✓	-	-	-	-	-	-	TSSOP-C48V
BU97530KVT	445	89	5	2.7 to 6.0		-40 to +85	1/5, 1/4, 1/3, Static	1/3, 1/2	3wire+KEYOUT	✓	9port (9ch PWM)	-	-	9ch 8bit	5×6 Max 30Key	-	TQFP100V

车载用低Duty LCD段码驱动器																		
Part No.	Display (dots)	Outputs		Operating Voltage (V)		Operating Temperature (°C)	Duty	Bias	I/F	EVR	GPO	Independent Blink	LED Driver	PWM Gen.	Keyscan	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
		seg.	com.	I/F Power Supply (V _{cc})	LCD Power Supply (VLCD)													
BU97601FV-M	116	29	4	2.7 to 6.0		-40 to +85	1/4, 1/3, 1/2, Static	1/3, 1/2	3wire +KEYOUT	✓	16port (16ch PWM)	-	-	6ch 9bit	4x5 Max 20Key	SSOP-B40	FSs	YES
BU9797FUV-M	144	36	4	2.5 to 5.5		-40 to +85	1/4	1/3, 1/2	2wire	-	-	-	-	-	-	TSSOP-C48V	FSs	YES
BU97510CKV-M	216	54	4	2.7 to 6.0		-40 to +85	1/4, 1/3	1/3, 1/2	3wire	-	6port (6ch PWM)	-	-	6ch 6bit	-	VQFP64	FSs	YES
BU97520AKV-M	276	69	4	2.7 to 6.0		-40 to +85	1/4, 1/3	1/3, 1/2	3wire +KEYOUT	-	6port (6ch PWM)	-	-	6ch 8bit	5x6 Max 30Key	VQFP80	FSs	YES
BU97540KV-M	335	67	5	2.7 to 6.0		-40 to +85	1/5, 1/4, 1/3, Static	1/3, 1/2	3wire +KEYOUT	✓	9port (9ch PWM)	-	-	9ch 9bit	5x6 Max 30Key	VQFP80	FSs	YES
BU97530KVT-M	445	89	5	2.7 to 6.0		-40 to +85	1/5, 1/4, 1/3, Static	1/3, 1/2	3wire +KEYOUT	✓	9port (9ch PWM)	-	-	9ch 8bit	5x6 Max 30Key	TQFP100V	FSs	YES
BU97550KV-M	528	66	8	2.7 to 6.0		-40 to +85	1/8, 1/7, 1/5, 1/4, 1/3, Static	1/4, 1/3, 1/2	3wire +KEYOUT	✓	9port (9ch PWM)	-	-	9ch 9bit	5x6 Max 30Key	VQFP80	FSs	YES
BU91795MUF-M	48	12	4	2.5 to 6.0		-40 to +105	1/4	1/3	2wire	-	-	-	-	-	-	VQFN24FV4040	FSs	YES
BU91796BMUF-M	80	20	4	2.5 to 6.0		-40 to +105	1/4	1/3	2wire	-	-	-	-	-	-	VQFN32FBV050	FSs	YES
BU91796FS-M	80	20	4	2.5 to 6.0		-40 to +105	1/4	1/3	2wire	-	-	-	-	-	-	SSOP-A32	FSs	YES
BU91600FV-M	116	29	4	2.7 to 6.0		-40 to +105	1/4, 1/3, 1/2, Static	1/3, 1/2	3wire +KEYOUT	✓	16port (16ch PWM)	-	-	6ch 9bit	4x5 Max 20Key	SSOP-B40	FSs	YES
BU91797MUF-M	144	36	4	2.5 to 6.0		-40 to +105	1/4	1/3	2wire	-	-	-	-	-	-	VQFN48FV7070	FSs	YES
BU91797FUV-M	144	36	4	2.5 to 6.0		-40 to +105	1/4	1/3	2wire	-	-	-	-	-	-	TSSOP-C48V	FSs	YES
BU91600FUV-M	148	37	4	2.7 to 6.0		-40 to +105	1/4, 1/3, 1/2, Static	1/3, 1/2	3wire +KEYOUT	✓	16port (16ch PWM)	-	-	6ch 9bit	4x5 Max 20Key	TSSOP-C48V	FSs	YES
BU91799KV-M	200	50	4	2.5 to 6.0	2.5 to 6.0	-40 to +105	1/4	1/3	2wire	✓	-	-	-	-	-	VQFP64	FSs	YES
BU91501KV-M	204	51	4	2.7 to 6.0	4.5 to 6.0	-40 to +105	1/4, 1/3	1/3, 1/2	3wire +KEYOUT	-	4port	-	-	-	5x6 Max 30Key	VQFP64	FSs	YES
BU91510KV-M	216	54	4	2.7 to 6.0		-40 to +105	1/4, 1/3	1/3, 1/2	3wire	-	6port (6ch PWM)	-	-	6ch 6bit	-	VQFP64	FSs	YES
BU91520KV-M	276	69	4	2.7 to 6.0		-40 to +105	1/4, 1/3	1/3, 1/2	3wire +KEYOUT	-	6port (6ch PWM)	-	-	6ch 8bit	5x6 Max 30Key	VQFP80	FSs	YES
BU91530KVT-M	445	89	5	2.7 to 6.0		-40 to +105	1/5, 1/4, 1/3, Static	1/3, 1/2	3wire +KEYOUT	✓	9port (9ch PWM)	-	-	9ch 8bit	5x6 Max 30Key	TQFP100V	FSs	YES
BU91R63CH-M	176	44	4	2.7 to 6.0	2.7 to 6.0	-40 to +105	1/4, 1/3, 1/2, Static	1/3, 1/2	2wire	✓	-	-	-	-	-	Au Bump Chip	FSs	YES
BU91R64CH-M	320	80	4	2.7 to 6.0	2.7 to 6.0	-40 to +105	1/4, 1/3, 1/2, Static	1/3, 1/2	2wire/3wire	✓	-	✓	-	-	-	Au Bump Chip	FSs	YES
BU91R65CH-M	640	160	4	2.7 to 6.0	2.7 to 6.0	-40 to +105	1/4, 1/3, 1/2, Static	1/3, 1/2	2wire/3wire	✓	-	✓	-	-	-	Au Bump Chip	FSs	YES

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*1 "ComfySIL™功能安全类别" 的详情请参阅封二。

图形LCD用 控制器驱动器

(LAPIS Technology产品)

LCD控制器驱动器									
Part No.	Max No. of Segment Outputs	Max Driving Display Size	Logic Supply Voltage (V)	Driver Supply Voltage (V)	Operating Temperature (°C)	Feature	Package	Halogen Free Support*1	Automotive Grade*2
ML9058E	132	132x65 dots	3.7 to 5.5	6 to 18	-40 to +85	Integrated RAM/ Boost circuit	Au bump chip	✓	YES
ML9445A	180	180x65 dots	2.7 to 5.5	6 to 18.5	-40 to +105	Integrated RAM/ Boost circuit/PWM	Au bump chip	✓	YES
ML9092-01	56	56x10 dots			-40 to +85	Integrated RAM/ Boost circuit	P-TQFP100 -1414-0.50-2K6	✓	YES
ML9092-02	60	60x10 dots	4.5 to 5.5	4.5 to 16.5	-40 to +85	Integrated RAM/ Boost circuit	P-TQFP100 -1414-0.50-2K6	✓	YES
ML9092-03						Integrated RAM	P-TQFP100 -1414-0.50-2K6		
ML9092-04						Integrated RAM/PWM	P-TQFP100 -1414-0.50-2K6		

*1 带无卤素标记 ✓, 表示备有无卤素产品。详细内容请咨询销售人员。
*2 关于AEC-Q100, 请咨询销售人员。

低Duty LCD用 控制器驱动器

(LAPIS Technology产品)

LCD控制器驱动器(封装品)														
Part No.	Max No. of Segment Outputs	Max No. of Driving Segments					Internal Oscillation Frame Frequency (Hz)	Logic Supply Voltage (V)	Driver Supply Voltage (V)	Operating Temperature (°C)	Feature	Package	Halogen Free Support*1	Automotive Grade*2
		static	1/2	1/3	1/4	1/5								
ML9470-12	80	80	160	—	—	—	—	3.0 to 5.5 (single)	—40 to +105	Supports external clock input	P-QFP100-1420-0.65-BK6	✓	YES	
ML9471		—	—	240	320	400					P-TQFP100-1414-0.50-ZK6	✓	YES	
ML9473		60	—	—	180	240					300	P-TQFP80-1212-0.50-ZK6	✓	YES
ML9477	32	—	—	96	128	—	3V±10%/5V±10%	3.5 to 5.5	—40 to +105	Supports external clock input/ Bias generator built in/ EMS countermeasure built in	P-TQFP48-0707-0.50-ZK6	✓	YES	
ML9484	50	50	100	150	200	—	2.7 to 5.5	4.5 to 5.5		Supports external clock input/ Bias generator built in	P-TQFP64-1010-0.50-ZK6	✓	YES	
LCD控制器驱动器(金凸点品)														
ML9480	40	40	80	120	160	—	65/75/85/95/ 130/150/170/190 command switching	2.7 to 5.5	4.5 to 5.5	—40 to +105	Supports external clock input/ Bias generator built in/ EMS countermeasure built in/ No external parts	Au bump chip	✓	YES
ML9478C	80	80	160	240	320	—	65/75/85/95 command switching					Au bump chip	✓	YES
ML9479E	160	160	320	480	640	—						Au bump chip	✓	YES
ML9488	80	80	160	240	320	—	130/150/170/190 command switching				Supports external clock input/ Bias generator built in	Au bump chip	✓	YES
ML9489	160	160	320	480	640	—						Au bump chip	✓	YES

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*2 关于AEC-Q100, 请咨询销售人员。

车载时钟驱动器

(LAPIS Technology产品)

车载时钟									
Part No.	Display Duty	VFD Driving Voltage (V)	Logic Supply Voltage (V)	Operating Temperature (°C)	Supply Current (Max)	No. of Digit	Package	Halogen Free Support*1	Automotive Grade*2
ML9298	1/2	4.0 to 18	No need	—40 to +85	0.6mA	4digits×1line and col.	P-SSOP32 -430-1.00-K6	✓	YES
ML9098B	Static, 1/2	3.0 to 5.5	3.0 to 5.5	—40 to +105		4digits×1line and col., AM, PM	P-TQFP48 -0707-0.50-ZK6	—	YES

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*2 关于AEC-Q100, 请咨询销售人员。