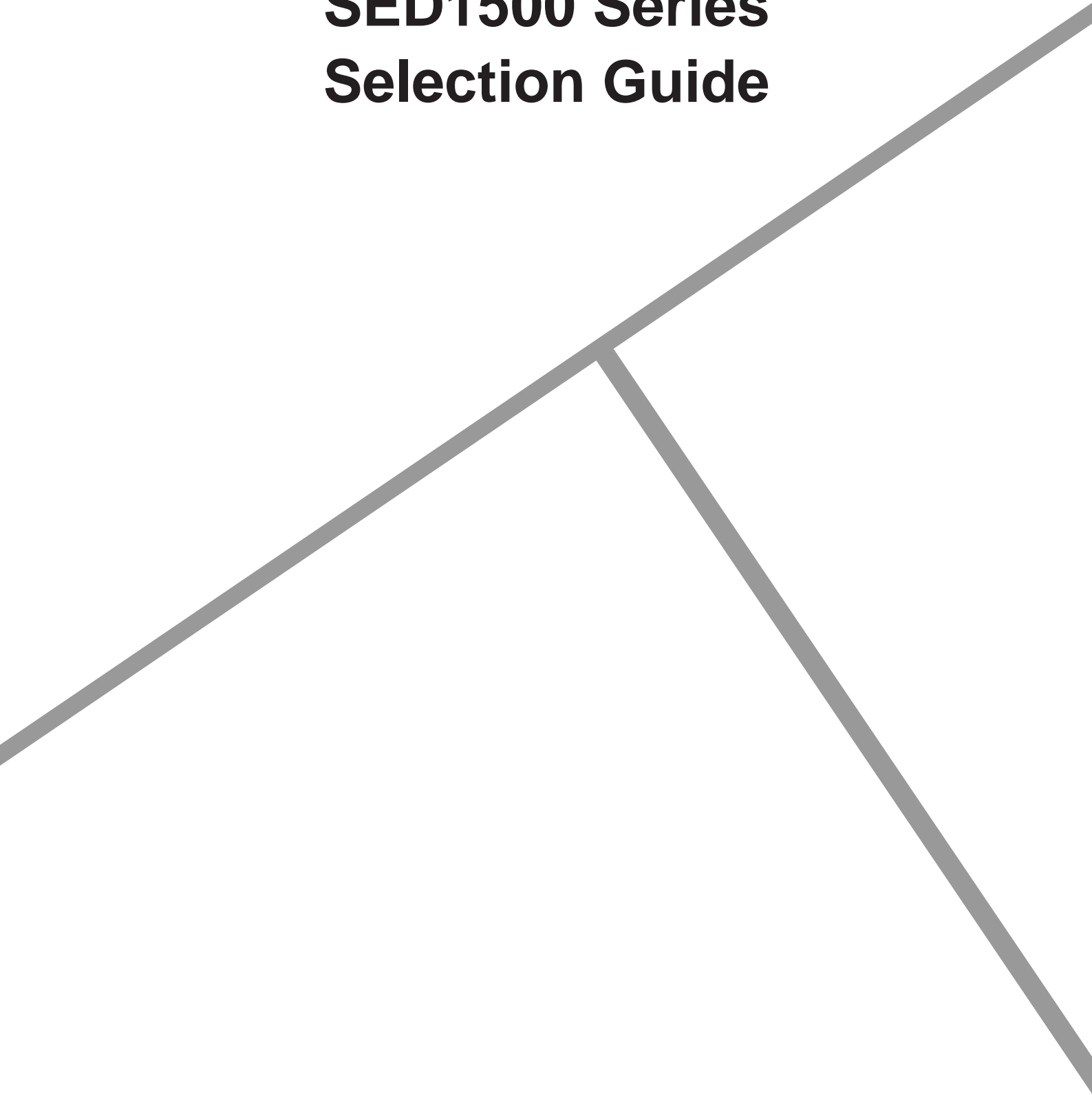


SED1500 Series Selection Guide



■ LCD drivers with RAM for small- and medium-sized displays

Ultra-low power consumption and on-chip RAM make this series ideal for compact LCD-based equipment.

SED1500 series

Part number	Supply voltage range (V)	LCD voltage range (V)	Duty	Segment	Common	Display RAM (bits)	Microprocessor interface	Frequency (KHz)	Package	Application/additional features				
SED1510D0c	0.9–6.0	1.8–6.0	1/4	32	4	128	Serial	18 (internal)	Al pad chip	Small segment-type LCD display. Command and data interface				
SED1510F0c									QFP12-48pin					
SED1520D0A	2.4–7.0	3.5–13	1/16, 1/32	61	16	2,560	8-bit parallel	18 (internal, external)	Al pad chip	Dot-matrix LCD displays Extension driver is the SED1521.				
SED1520D0B									Au bump chip					
SED1520F0A									QFP5-100pin					
SED1520F0C									QFP15-100pin					
SED1520T0A									TCP					
SED1520DAA									Al pad chip					
SED1520DAB									Au bump chip					
SED1520FAA									QFP5-100pin					
SED1520FAC			QFP15-100pin											
SED1520TAA#			TCP											
SED1521D0A			18 (external)	1/8–1/32	80			–	–		–	–	Al pad chip	Extension driver for the SED1520 and SED1522
SED1521D0B													Au bump chip	
SED1521F0A													QFP5-100pin	
SED1521F0C													QFP15-100pin	
SED1521T0A#													TCP	
SED1521DAA													Al pad chip	
SED1521DAB	Au bump chip													
SED1521FAA	QFP5-100pin													
SED1521FAC	QFP15-100pin													
SED1521TAA#	TCP													
SED152AD0A	Al pad chip	P-substrate version of SED1521												
SED1522D0A	18 (internal, external)	1/8, 1/16	69	8	8	8	8	Al pad chip	Dot-matrix LCD displays Extension driver is the SED1521.					
SED1522D0B								Au bump chip						
SED1522F0A								QFP5-100pin						
SED1522F0C								QFP15-100pin						
SED1522T0A#								TCP						
SED1522DAA								Al pad chip						
SED1522DAB								Au bump chip						
SED1522FAA								QFP5-100pin						
SED1522FAC								QFP15-100pin						
SED1522TAA#								TCP						
SED1540D0A	18 (internal) 4 (external)	3.5–11	1/3, 1/4	73	3, 4	3, 4	3, 4	Al pad chip	Segment-type displays					
SED1540D0B								Au bump chip						
SED1540F0A								QFP5-100pin						

: Planning TCP : Tape Carrier Package

Part number	Supply voltage range (V)	LCD voltage range (V)	Duty	Segment	Common	Display RAM (bits)	Microprocessor interface	Frequency (KHz)	Package	Application/additional features						
SED1560D0A	2.4-6.0	6.0-16.0	1/48, 1/49 1/64, 1/65	102	65	166×65 bits	8-bit parallel or Serial	18	Al pad chip	Built-in power circuit for LCD (voltage tripler) SED1560*0B (1/9 bias) SED1560*AB (1/7 bias) SED1561*0B (1/7 bias) SED1561*AB (1/5 bias)						
SED1560DAA									Al pad chip							
SED1560D0B									Au bump chip							
SED1560DAB									Au bump chip							
SED1560T0B									TCP							
SED1560TQA			QTCP													
SED1561D0A			1/24, 1/25 1/32, 1/33	134	33				Al pad chip							
SED1561D0B									Au bump chip							
SED1561DAB									Au bump chip							
SED1561T0B									TCP							
SED1561TAB									TCP							
SED1561TQA			QTCP													
SED1562D0A			1/16, 1/17 (1/5bias)	150	17				Al pad chip							
SED1562D0B									Au bump chip							
SED1562T0B									TCP							
SED1562TQA	QTCP															
SED1565DBB	1.8-5.5	4.5-16.0				1/65 (1/7, 1/9 bias)	65	132×65 bits	8-bit parallel or Serial	33	Au bump chip	Built-in power circuit for LCD (DC/DC×4)				
SED1565D0B			Au bump chip													
SED1565D1B			Au bump chip													
SED1565D2B			Au bump chip													
SED1565T0A			TCP													
SED1565T0B			TCP													
SED1565T0C			TCP													
SED1566DBB			1/49 (1/6, 1/8 bias)	132	49	Au bump chip										
SED1566D0B						Au bump chip										
SED1566D1B						Au bump chip										
SED1566D2B						Au bump chip										
SED1566T0A						TCP										
SED1567DBB			1/33 (1/5, 1/6 bias)	33	33	Au bump chip										
SED1567D0B						Au bump chip										
SED1567D1B						Au bump chip										
SED1567D2B						Au bump chip										
SED1567T0B						TCP										
SED1567T0C			TCP													
SED1568DBB			1/55 (1/6, 1/8 bias)	55	55	Au bump chip										
SED1568D0B						Au bump chip										
SED1569DBB			1/53 (1/6, 1/8 bias)	53	53	Au bump chip										
SED1569D0B						Au bump chip										
SED1569T**			TCP													
SED1570D0A			2.7-5.5	8.0-20.0	1/64-1/200	80	-				200×80 bits		4-bit parallel	-	Al pad chip	Built-in self-refreshing function
SED1570D0B															Au bump chip	
SED1575D0B			3.6-5.5	4.5-18.0	1/65	168	65				200×65		8-bit serial	22	Au bump chip	Built-in temperature sensor circuit
SED1575D3B			2.4-3.6												Au bump chip	
SED1575DAB	3.6-5.5	TCP														
SED1575T0A		TCP														
SED1575T3A	2.4-3.6	4.5-16.0	1/33	200	33	Au bump chip										
SED1577D0B	3.6-5.5					Au bump chip										
SED1577D3B	2.4-3.6					TCP										
SED1577T0A	3.6-5.5					TCP										
SED1577T3A	2.4-3.6	4.5-10.0	1/17	17	17	Au bump chip										
SED1578D0B	3.6-5.5					Au bump chip										

Part number	Supply voltage range (V)	LCD voltage range (V)	Duty	Segment	Common	Display RAM (bits)	Microprocessor interface	Frequency (KHz)	Package	Application/additional features			
SED157AD0B	1.8-5.5	4.5-18.0	1/65	224	65	256x65	8-bit serial	22	Au bump chip	Built-in temperature sensor circuit			
SED157ADAB													
SED157ADBB													
SED157AT0A													
SED1526D*A	2.4-6.0	3.5- Supply voltage _{x3}	1/8, 1/9 1/16, 1/17	80	17	80x33 bits	8-bit parallel or Serial	20	Al pad chip	Built-in power circuit for LCD (voltage tripler) SED1526*0* (VREG) SED1526*E* (no VREG) SED1526*A* (redistribution of COMS) SED1528*0* (VREG) SED1528*E* (no VREG)			
SED1526D*B													
SED1526F*A													
SED1526T*A													
SED1528D*A			1/32, 1/33	64	33				Al pad chip				
SED1528D*B													
SED1528F*A													
SED1528T*A													
SED1530D0A	2.4-6.0	4.5-16.0	1/32, 1/33	100	33	132x65 bits	8-bit parallel or Serial	-	Al pad chip	Built-in power circuit for LCD (voltage quadrupler) SED153**0* (Common: Right side) SED153**A* (Common: Both side) SED153**B* (Common: Left side) SED153**F* (no VREG)			
SED1530DAA													
SED1530D0B													
SED1530DAB													
SED1530TAA													
SED1531D0A									132		-	-	Al pad chip
SED1531D0B													
SED1531T0A													
SED1532D0A			100	33	-								Al pad chip
SED1532D0B													
SED1532D0A													
SED1532D0B													
SED1532D0A													
SED1532D0B													
SED1532D0A													
SED1532D0B													
SED1535D0B*	1/35	98	35	Au bump chip									
SED15A6D0B	1.8-3.6	4.5-9.0	1/55	102	55	102x65	8-bit Serial	35.2	Au bump chip	Built-in voltage supply is only used			
**SED15A6D1B									Au bump chip	V0 or Vout external supply voltage follower is used			
**SED15A6D2B									Au bump chip	External voltage supply is only used			
**SED15A6T0*									TCP				
SED15B1D0B	1.7-5.5	4.5-16.0	1/65	132	65	132x65	8-bit serial	5.2	Au bump chip				

TCP : Tape Carrier Package

** : Being planned