

ABSOLUTE MAXIMUM RATINGS

Item	Symbol	Min.	Max.	Unit
Supply Voltage(Logic)	VDD - VSS	-0.3	3.6	V
Supply Voltage(LCD)	Vout - Vss	-0.3	14.5	V
Input Voltage	Vı	-0.3	V _{DD} + 0.3	V
Operating Temp.	Topr	-20	70	°C
Storage Temp.	Tstg	-30	80	°C

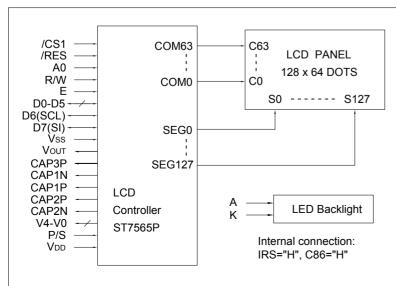
MECHANICAL DATA

Item	Nominal Dimensions	Unit
Module Size (WxHxT)	44.5 x 39.5 x 8.5	mm
Viewing Area (WxH)	39.0 x 28.0	mm
Dot Pitch (WxH)	0.282 x 0.36	mm
Dot Size (WxH)	0.252 x 0.33	mm
Weight	Approx. 14	g

ELECTRICAL CHARACTERISTICS (VDD = 3V to 3.3V)

Item	Symbol	Test Condition	Min.	Тур.	Max.	Unit
Input High Voltage	ViH		0.8VDD		VDD	V
Input Low Voltage	VIL		0		0.2V DD	V
Output High Voltage	Vон	Iон = - 0.1mA	0.8VDD		Vdd	٧
Output Low Voltage	Vol	IoL = 0.1mA	0		0.2VDD	V
Supply Current	IDD	V _{DD} =3 to 3.3V		0.4	0.8	mA
LCD Driving Voltage	Vo - Vss	Ta=25°C		9.9		V

BLOCK DIAGRAM



PIN CONNECTIONS

Pin	Symbol	Level	Function		
1	VDD	3V-3.3V	Power supply for logic and booster		
2	P/S	H/L	H: Parallel mode L: Serial mode		
3	Vss	0V	GND		
4-8	V0-V4		Power supply for LCD drive		
9	CAP2N		Capacitor 2 negative connection		
10	CAP2P		Capacitor 2 positive connection		
11	CAP1P		Capacitor 1 positive connection		
12	CAP1N		Capacitor 1 negative connection		
13	CAP3P		Capacitor 3 positive connection		
14	Vоит		DC/DC voltage converter output		
15	Vss	0V	GND		
16	D7(SI)	H/L	P/S=H: D0 to D7 are 8-bit data bus.		
17	D6(SCL)	H/L	P/S=L: D6 is serial clock input;		
18-23	D5-D0	H/L	D7 is serial data input.		
24	Е	H,H <i>→</i> L	Enable signal		
25	R/W	H/L	H: Read L: Write		
26	A0	H/L	H: Display data L: Instruction code		
27	/RES	L	Reset signal. Active "L".		
28	/CS1	L	Chip selection signal. Active "L".		
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LED BACKLIGHT SPECIFICATIONS (Ta=25°C)

Item	Symbol	Тур.	Max.	Unit
Forward Voltage	Vf	2.9	3.1	V
Forward Current	l f	20		mA
LED Color		White		