



PIN CONNECTIONS

Pin	Symbol	Level	Function
1	/RES	L	Reset signal, active L
2	/RD	L	Read signal
3	/WR	L	Write signal
4	/CS	L	Chip select, active L
5	A0	H/L	L:Data H: Instruction code
6~13	DB0~DB7	H/L	Data bus line
14	VDD	+5.0V	Power supply for Logic
15	VSS	0V	Ground
16	VEE	-	Negative voltage output
17	V0	-	Driving voltage for LCD
18	SK	H/L	Touch panel serial clock input
19	DO	H/L	Touch panel serial data output
20	DI	H/L	Touch panel serial data input
21	TCS	H/L	Touch panel chip select
22	INT	H/L	Touch panel interrupt signal
23	LEDK	0V	Power supply for LED backlight
24	LEDA	+5.0V	

NOTES:

1. Built-in controller(RA8835)
2. Parallel(8080-Serials) interface
3. 5V/3.3V power supply optional
4. Built-in Touch panel

MECHANICAL DATA

Item	Nominal Dimensions	Unit
Module Size (W x H x T)	160.0X109.0X12.3MAX	mm
Viewing Area (W x H)	122.0 X92.0	mm
Dot Pitch (W x H)	0.36X0.36	mm
Dot Size (W x H)	0.33X0.33	mm

ABSOLUTE MAXIMUM RATINGS

Item	Symbol	Min.	Max.	Unit
Supply Voltage(Logic)	$V_{DD}-V_{SS}$	0	5.5	V
Supply Voltage(LCD)	V_{LCD}	0	28	V
Operating Temp	$T_{OPR.}$	-20	70	°C
Storage Temp	$T_{STG.}$	-30	80	°C

ELECTRICAL CHARACTERISTICS($V_{DD}=5.0V, T_a=25^{\circ}C$)

Item	Sym.	Min.	Typ.	Max.	Unit
Input High Voltage	V_{IH}	0.8 VDD	-	-	V
Input Low Voltage	V_{IL}	-	-	0.2 VDD	V
Output High Voltage	V_{OH}	0.8 VDD	-	-	V
Output Low Voltage	V_{OL}	-	-	0.2 VDD	V
Supply Current	I_{DD}	-	50	-	mA

LED BACKLIGHT SPECIFICATION ($T_a=25^{\circ}C$)

Item	Forward Voltage	Forward Current
White	3.1V	$I_f=180\text{ mA}$