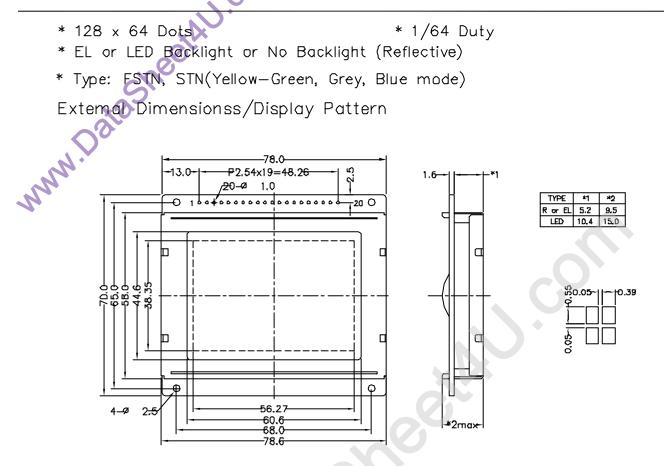
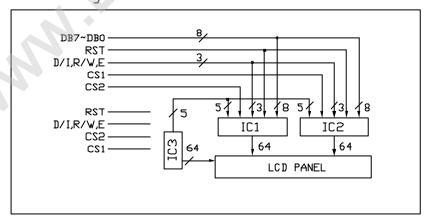
- * 1/64 Duty
- * EL or LED Backlight or No Backlight (Reflective)
- * Type: FSTN, STN(Yellow-Green, Grey, Blue mode)



External Dimensionss/Display Pattern

1	2	3	4	5	6	7~14	15	16	17	18	19	20
Vss	Vcc	Vo	D/I	R/W	E	DB0~DB7	CS2	CS1	RST	VEE	LED+	LED-

Block Diagram



Absolute Maximum Ratings

RST — D/I,R/W,E — CS2 — CS1 —		eeth).com	
Absolute Maximum R	atings	Sheet	
Item	Nominal Dimensions	Unit	
Module Size (W x h x T)	78.0 × 70.0 × 9.5/14.0	mm	
Viewing Area (W x H)	60.6 x 44.6	mm	
Dota x Dota (W x H)	128 x 64	dots	
Dot Pitch (W x H)	0.44 × 0.60	mm	
Dot Size (W x H)	0.39 × 0.55	mm	



Absolute Maximum Ratings

14 a ina	Cumo had	Test	Standar	Unit		
Item	Symbol	Condition	Mìn.	Max.	Unit	
Supply Voltalge for Logic	Vcc-Vss		-0.3	7.0	٧	
Supply Voltaige for LCD	Vcc-Vo	Ta=25° C	0	15.0	V	
Input Voltage	V٦		0	Vac	٧	
Operating Temperature	Topr	_	0	+50	"C	
Storage Temperature	Tstg	_	-20	+60	° C	

Electrical Characteristics ($Vcc=5.0V \pm 5\% Ta=25 \text{ °C}, Vo=-10.0V$)

14	S b l	Test	St	11-41			
Item	Symbol	Condition	Min.	Тур.	Max.	Unit	
Fundly Voltage for	Logic	Vcc-Vss	_	4.5	5.0	5.5	>
Supply Voltage for	LCD	Vcc-Vo	_	_	11.5	_	V
Fundly Current for	Logic	Ica	_	1	0.6	1.0	mA
Supoly Current for	LCD	lo	_	_	3.0	_	mA
		_	_	-	_	>	
Operating Voltage for LCD (Recommended)		Vcc-Vo	25 ° C	_	11.5	_	>
			_	_	_	_	V
Innut Valtage	'H' Level	Vih	High Level	0.7Vcc	-	Vcc	٧
Input Voltage	'L' Level	VII	Low Level	0	_	0.3Vcc	>

Electrical Characteristics

Pin No	Symbol	Input/Output	Description
1	Vss	Power	Ground
2	Vcc	Power	Supply Voltage for Logic and LCD
3	Vo	Input	Operating Voltage for LCD
4	۱/ ם	Input	H: data; L: Instruction code
5	R/W	Input	Read/write selection. H: Read; L: Write
6	E	Input	Enable signal for chip
7~14	DBO~DB7	Input/Output	Data Line
15	¢S2	Input	Chip select signal for IC2
16	CS1	Input	Chip select signal for IC1
17	RST	Input	Reset at risting dege
18	VEE	Power	Supply voltage for LCD
19	LED+	BackLinght Power	Supply Voltage for BackLinght (+)
20	LED-	BackLinght Power	Supply Voltage for BackLinght (-)