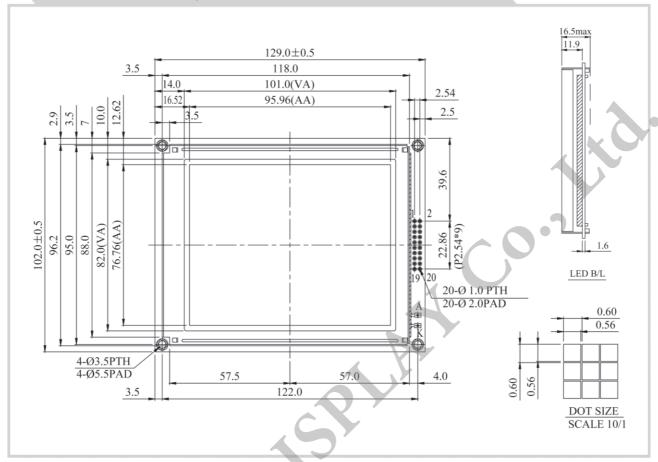
WG160128B Graphic 160x128 dots



Feature

- 1. Built-in controller RA6963
- 2. 5V power supply 3. 1/128 duty cycle
- 4. Optional N/V

7 /RD Data read. Read data from LCD Controlle 8 /CE Enable signal 9 C/D Data/ Instruction select signal 10 /HALT Clock operating stop signal 11 /RESET Controller reset signal, Active Low 12 DB0 Data bus line 13 DB1 Data bus line 14 DB2 Data bus line 15 DB3 Data bus line 16 DB4 Data bus line 17 DB5 Data bus line 18 DB6 Data bus line					
2 V _{SS} Ground 3 V _{DD} Power supply for logic 4 V _O Contrast Adjustment 5 V _{EE} Negative Voltage Output 6 /WR Data write. Write data into LCD Controller 7 /RD Data read. Read data from LCD Controlle 8 /CE Enable signal 9 C/D Data/ Instruction select signal 10 /HALT Clock operating stop signal 11 /RESET Controller reset signal, Active Low 12 DB0 Data bus line 13 DB1 Data bus line 14 DB2 Data bus line 15 DB3 Data bus line 16 DB4 Data bus line 17 DB5 Data bus line 18 DB6 Data bus line	Pin No.	Symbol	Description		
3 V _{DD} Power supply for logic 4 V _O Contrast Adjustment 5 V _{EE} Negative Voltage Output 6 /WR Data write. Write data into LCD Controller 7 /RD Data read. Read data from LCD Controlle 8 /CE Enable signal 9 C/D Data/ Instruction select signal 10 /HALT Clock operating stop signal 11 /RESET Controller reset signal, Active Low 12 DB0 Data bus line 13 DB1 Data bus line 14 DB2 Data bus line 15 DB3 Data bus line 16 DB4 Data bus line 17 DB5 Data bus line 18 DB6 Data bus line	1	FG	Frame ground		
4 Vo Contrast Adjustment 5 VE Negative Voltage Output 6 /WR Data write. Write data into LCD Controller 7 /RD Data read. Read data from LCD Controlle 8 /CE Enable signal 9 C/D Data/ Instruction select signal 10 /HALT Clock operating stop signal 11 /RESET Controller reset signal, Active Low 12 DB0 Data bus line 13 DB1 Data bus line 14 DB2 Data bus line 15 DB3 Data bus line 16 DB4 Data bus line 17 DB5 Data bus line 18 DB6 Data bus line	2	V_{SS}	Ground		
5 V _{EE} Negative Voltage Output 6 MR Data write. Write data into LCD Controller 7 /RD Data read. Read data from LCD Controlle 8 /CE Enable signal 9 C/D Data/ Instruction select signal 10 /HALT Clock operating stop signal 11 /RESET Controller reset signal, Active Low 12 DB0 Data bus line 13 DB1 Data bus line 14 DB2 Data bus line 15 DB3 Data bus line 16 DB4 Data bus line 17 DB5 Data bus line 18 DB6 Data bus line	3	V_{DD}	Power supply for logic		
6 /WR Data write. Write data into LCD Controller 7 /RD Data read. Read data from LCD Controlle 8 /CE Enable signal 9 C/D Data/ Instruction select signal 10 /HALT Clock operating stop signal 11 /RESET Controller reset signal, Active Low 12 DB0 Data bus line 13 DB1 Data bus line 14 DB2 Data bus line 15 DB3 Data bus line 16 DB4 Data bus line 17 DB5 Data bus line 18 DB6 Data bus line	4	Vo	Contrast Adjustment		
7 /RD Data read. Read data from LCD Controlle 8 /CE Enable signal 9 C/D Data/ Instruction select signal 10 /HALT Clock operating stop signal 11 /RESET Controller reset signal, Active Low 12 DB0 Data bus line 13 DB1 Data bus line 14 DB2 Data bus line 15 DB3 Data bus line 16 DB4 Data bus line 17 DB5 Data bus line 18 DB6 Data bus line	5	VEE	Negative Voltage Output		
8 /CE Enable signal 9 C/D Data/ Instruction select signal 10 /HALT Clock operating stop signal 11 /RESET Controller reset signal, Active Low 12 DB0 Data bus line 13 DB1 Data bus line 14 DB2 Data bus line 15 DB3 Data bus line 16 DB4 Data bus line 17 DB5 Data bus line 18 DB6 Data bus line	6	MR	Data write. Write data into LCD Controller		
9 C/D Data/ Instruction select signal 10 /HALT Clock operating stop signal 11 /RESET Controller reset signal, Active Low 12 DB0 Data bus line 13 DB1 Data bus line 14 DB2 Data bus line 15 DB3 Data bus line 16 DB4 Data bus line 17 DB5 Data bus line 18 DB6 Data bus line	7	/RD	Data read. Read data from LCD Controller		
10 /HALT Clock operating stop signal 11 /RESET Controller reset signal, Active Low 12 DB0 Data bus line 13 DB1 Data bus line 14 DB2 Data bus line 15 DB3 Data bus line 16 DB4 Data bus line 17 DB5 Data bus line 18 DB6 Data bus line	8	/CE	Enable signal		
11 /RESET Controller reset signal, Active Low 12 DB0 Data bus line 13 DB1 Data bus line 14 DB2 Data bus line 15 DB3 Data bus line 16 DB4 Data bus line 17 DB5 Data bus line 18 DB6 Data bus line	9	C/D	Data/ Instruction select signal		
12 DB0 Data bus line 13 DB1 Data bus line 14 DB2 Data bus line 15 DB3 Data bus line 16 DB4 Data bus line 17 DB5 Data bus line 18 DB6 Data bus line	10	/HALT	Clock operating stop signal		
13 DB1 Data bus line 14 DB2 Data bus line 15 DB3 Data bus line 16 DB4 Data bus line 17 DB5 Data bus line 18 DB6 Data bus line	11	/RESET	Controller reset signal, Active Low		
14 DB2 Data bus line 15 DB3 Data bus line 16 DB4 Data bus line 17 DB5 Data bus line 18 DB6 Data bus line	12	DB0	Data bus line		
15 DB3 Data bus line 16 DB4 Data bus line 17 DB5 Data bus line 18 DB6 Data bus line	13	DB1	Data bus line		
16 DB4 Data bus line 17 DB5 Data bus line 18 DB6 Data bus line	14	DB2	Data bus line		
17 DB5 Data bus line 18 DB6 Data bus line	15	DB3	Data bus line		
18 DB6 Data bus line	16	DB4	Data bus line		
	17	DB5	Data bus line		
40 DDZ Data base line	18	DB6	Data bus line		
19 DB/ Data bus line	19	DB7	Data bus line		
20 NC No connection	20	NC	No connection		

Mechanical Data

Item	Standard Value	Unit
Module Dimension	129.0 x 102.0	mm
Viewing Area	101.0 x 82.0	mm
Mounting Hole	122.0 x 96.2	mm
Dot Pitch	0.60 x 0.60	mm
Dot Size	0.56 x 0.56	mm

Electrical Characteristics

Item	Symbol	Standard Value typ.	Unit
Input Voltage	VDD	3/5	V
Recommended LCD Driving Voltage for Normal Temp. Version module @25°C	VDD-VO	19.2	V