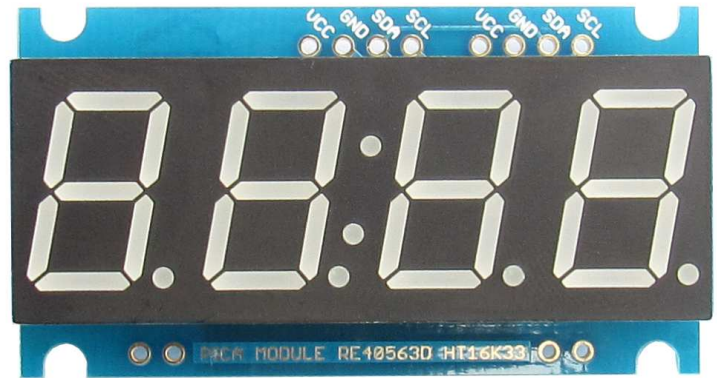


4-Digit 7-Segment LED Display Driver + Control Module

PICA MODULE

CHARACTERISTICS

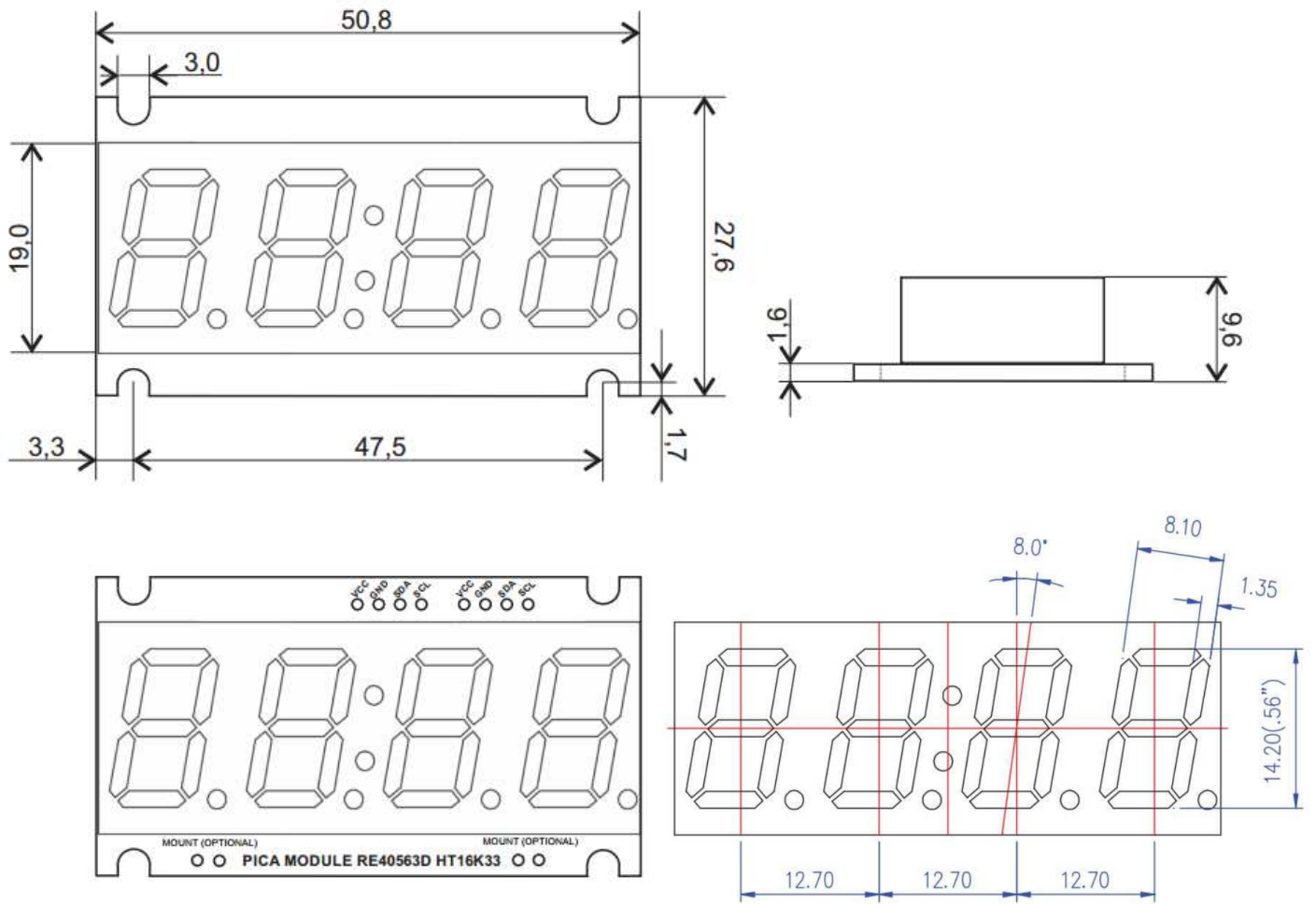
- Module Dimensions : 50.8mm x 27,6mm x 9,6mm
- Digit height : 14.2mm (0.56 inch)
- LED Driver + Controller HT16K33
- Operating Voltage: 4,5V to 5,5V
- Interface: I2C (up to 8 Devices addressable)
- High Luminous Intensity
- Low power requirement
- Stable performance
- Continuous Uniform Segments
- Long lifespan
- RoHS Compliant



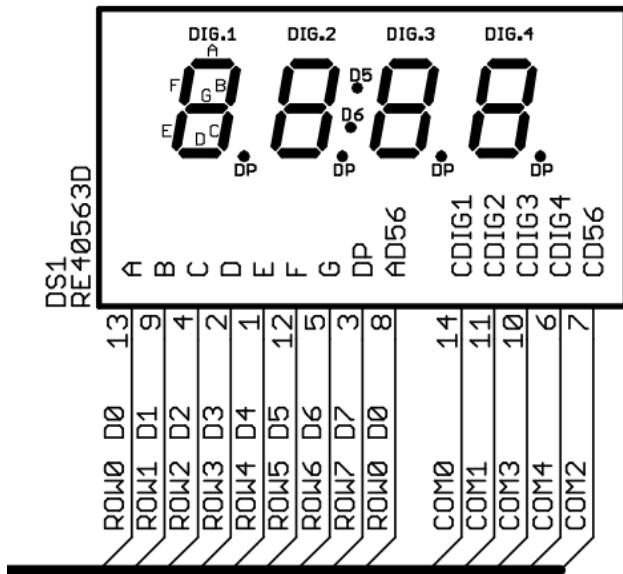
4-Digit 0.56" 7-Segment LED Display I2C Module

ORDER CODE	Color	
PICAMODULE_RE40563DF1B	Orange/Amber	White Segments, Black Face Emitting Color: Ultra bright Orange
PICAMODULE_RE40563DG1B	Pure Green	White Segments, Black Face Emitting Color: Pure Green
PICAMODULE_RE40563DBH1B	Blue	White Segments, Black Face Emitting Color: Ultra bright blue
PICAMODULE_RE40563DR1B	Ultra bright Red	White Segments, Black Face Emitting Color: Ultra bright red
PICAMODULE_RE40563DY1B	Yellow	White Segments, Black Face Emitting Color: Ultra bright yellow

DIMENSIONS AND PINOUT



SEGMENT TO RAM ASSIGNMENT



D8..15 unused
COM5..7 unused

DATA0 [15..0] = DIG.1
DATA1 [15..0] = DIG.2
DATA2 [15..0] = D5, D6
DATA3 [15..0] = DIG.3
DATA4 [15..0] = DIG.4

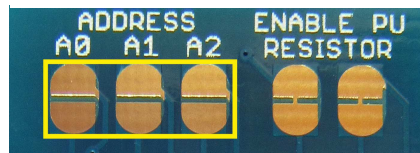
BIT0 -> A SEG
BIT7 -> DP
BIT8..15 unused

ADDRESS JUMPER SETTING

I2C 7-bit Address	A2	A1	A0
0x70	0	0	0
0x71	0	0	1
0x72	0	1	0
0x73	0	1	1
0x74	1	0	0
0x75	1	0	1
0x76	1	1	0
0x77	1	1	1

0: Jumper not shorted
1: Jumper shorted

Factory setting: Address 0x70

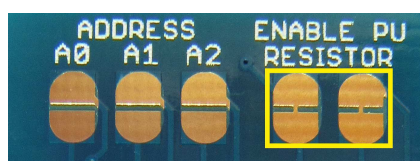


I2C PULLUP RESISTOR SETTING

Resistor SDA SCL used	ENABLE PU RESISTOR	
yes	1	1
no	0	0

0: Jumper not shorted
1: Jumper shorted

Factory setting: Pullup Resistors Enabled



ABSOLUTE MAXIMUM RATINGS

AND

ELECTRICAL AND OPTICAL CHARACTERISTICS

Please consider Datasheet of LED Driver Controller HT16K33 (Holtek, www.holtek.com.tw) and Datasheet of used Display Module.

Intended use

Displaying 4 Digits, for example time (hrs:min or min:sec).

Warning

To avoid damage due to electrostatic discharge (ESD), appropriate measures for ESD protection are to be taken for handling and only appropriately trained personnel should handle the board.

Disclaimer

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