

General Description: The LAUBEI 1.3" White Display Module is an all-in-one Human-Machine Interface (HMI) solution combining a crisp 1.3-inch monochrome display, an EC11 rotary encoder, and two dedicated physical push buttons (BACK and CONFIRM) on a compact single-board PCB. Operating over an I2C communication interface, it simplifies microcontroller hardware integration for embedded systems, smart devices, and user interfaces.

KEY FEATURES & HIGHLIGHTS

- **Display Size:** 1.3 inch high-contrast monochrome display.
 - **Display Color:** White output on dark background.
 - **Communication Interface:** I2C / IIC protocol for display control.
 - **Integrated Input Hardware:**
 - Rotary Encoder (EC11) with Center Push Switch
 - Dedicated "BACK" button (KEY0)
 - Dedicated "CONFIRM" button (KEY1)
- **Operating Voltage:** 3.3V DC (VCC pin).
 - **Mounting Support:** 4× M3 mounting holes at corners.
 - **Applications:** Embedded UI, menu navigation, industrial control panels, IoT devices, smart home controllers.
 - **Compact Footprint:** 64.90 mm × 35.03 mm outer dimensions.

PRODUCT VISUAL & HARDWARE LAYOUT



INTERFACE PIN SPECIFICATIONS

Pin No.	Silk Label	Schematic Signal	Type	Functional Description
1	CON	KEY1	Digital Output	Confirmation Key interface (CONFIRM button)
2	SDA	IIC_SDA	I/O (I2C)	I2C Serial Data line for display module
3	SCL	IIC_SCL	Input (I2C)	I2C Serial Clock line for display module
4	PSH	PUSH	Digital Output	EC11 Rotary Encoder push switch line
5	TRA	TRIM_A	Digital Output	EC11 Rotary Encoder Phase A signal
6	TRB	TRIM_B	Digital Output	EC11 Rotary Encoder Phase B signal
7	BAK	KEY0	Digital Output	Return / Back Key interface (BACK button)
8	GND	GND	Power Ground	System Power & Signal Ground
9	VCC	+3V3	Power Supply	+3.3V DC Power Input supply pin

MECHANICAL DIMENSIONS & MOUNTING LAYOUT

Mechanical Dimensions

Figure 3: Mechanical Dimensions Drawing (Unit: mm)

Parameter	Value
Overall Board Length	64.90 mm
Overall Board Width	35.03 mm

Parameter	Value
Active Display Width	27.64 mm
Active Display Height	18.92 mm
Fixing Holes	4 × M3 Screws
Hole Spacing (Horizontal)	58.96 mm
Hole Spacing (Vertical)	29.21 mm