Technical Datasheet

Smart LCD Display Module for Water & Electricity Meters

Model: XY-MeterDisplay Series

Product Overview

The XY-MeterDisplay series is a family of ultra-low power LCD and TFT display modules tailored for smart utility meters, including water meters, electricity meters, gas meters, and remote reading terminals. These modules offer high contrast visibility, wide temperature tolerance, and various interface options, making them ideal for long-term embedded applications.

Key Features

Ultra-low power consumption, suitable for battery-operated meters

Optional touch panel (resistive or capacitive)

Wide operating temperature range: -30°C ~ +85°C

Multiple interface options: SPI, I2C, TTL, UART

High contrast, sunlight readable (FSTN / IPS options)

Compact sizes from 1.44" to 4.3"

Long life LED backlight (50,000+ hours)

Custom cover glass with logo printing available

RoHS and ISO9001 certified production

Typical Specifications (Example)

Parameter Specification

Display Type Monochrome STN / FSTN / Color TFT

Size 1.44", 2.4", 2.8", 3.5", 4.3"

Resolution 128x64 / 240x320 / 480x272 etc.

Interface SPI / I2C / UART / TTL

Voltage 3.0V / 3.3V / 5.0V

Power Consumption Standby < 1mA

Operating Temp. -30°C to +85°C

Touch Panel Optional RTP or CTP

Backlight LED (White, Amber, Custom)

Cover Glass Optional logo print & anti-scratch

Viewing Angle 6 o’clock / IPS full view optional

Mounting Snap-in, screw, adhesive, or custom

Application Scenarios

Smart Water Meters

Smart Electricity Meters

Remote Meter Reading Terminals

Energy Management Displays

Utility Self-service Terminals

Customization Options

Interface (SPI, I2C, TTL, RS232)

Size & Shape (custom dimensions, cutouts)

Cover glass (logo print, AR coating, thickness)

Touch solution (resistive or capacitive)

UI firmware design

Waterproof & anti-glare options available

Packaging & Delivery

Packaging: Anti-static bags + bubble wrap + export carton

MOQ: 100 pcs

Lead Time: 3-4 weeks for standard models; custom projects negotiable

Sample: Available within 3–5 working days