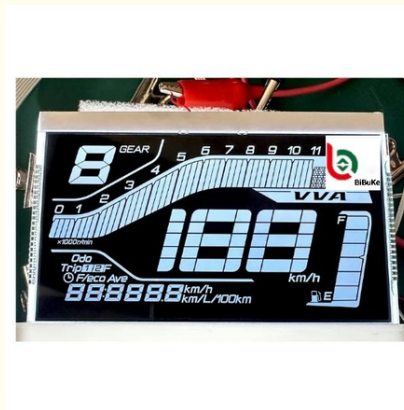


VATN Alphanumeric Segment LCD Display for Speedometer Odometer Meter with High Contrast, Wide Temperature Range, and Customizable Backlight

Our Product Introduction

Basic Information



Product Specification

- Pin Number: 36 PIN
- Operating Temp: -30°C To +80°C
- Optics: 6:00 Viewing Direction
- Backlight Technology: LED
- Glass: TN, Negative, Transmissive
- Connectivity: Metal Pin
- Pixel Pitch: 0.0975 (H) X 0.0975(V) Mm
- Surface Printing: None (Customizable)



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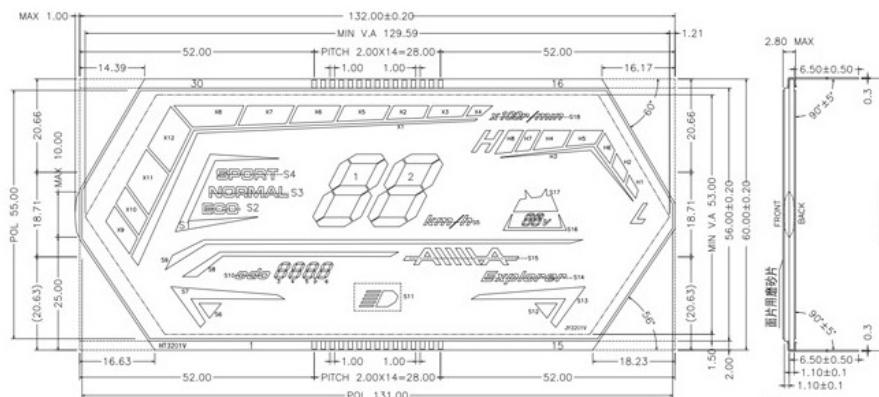
Product Description

VATN Alphanumeric Segment LCD Display For Speedometer Odometer Meter

Product Overview

Display Mode:	VATN Segment LCD	Driving Condition:	1/4Duty, 1/2Bias, 5.0V
Glass:	TN, Negative, Transmissive	Optics:	6:00 Viewing Direction
Backlight:	Customizable	Operating Temp:	-30°C To +80°C
Pin Number:	36 Pins	Surface Printing:	None (Customizable)
Connector:	Metal Pin	Compliance:	REACH & RoHS Compliant

Display Drawing



The VATN (Vertically Aligned Twisted Nematic) alphanumeric field liquid crystal speedometer and odometer is a segmental digital instrument that employs advanced VA type LCD technology. Its core function is to digitally display the vehicle's speed and mileage.

Product Introduction

Display Technology (VATN)

Belongs to VA (Vertical Alignment) liquid crystal technology (also known as EB/TN / Ultra Dark TN), operating in negative display mode (black background with white text)

Ultra-high Contrast: Contrast ratio up to 1000:1, far exceeding traditional TN/STN screens with sharp boundaries

Wide Viewing Angle: Approximately 170° (horizontal) / 110° (vertical) without white or black appearance from driver's side

Fast Response: Quick liquid crystal molecule flipping for smooth dynamic digital content without ghosting

Strong Environmental Adaptability: Wide working temperature range (-40°C ~ 85°C) with good readability in strong light, no temperature compensation needed

Display Structure (Segment Code Type)

Fixed segment code / pen segment design instead of dot matrix

Main Display Area: 7 segment digits (0-9) for speed (e.g., 188 km/h) and total/cumulative mileage (e.g., 99999.9 km)

Symbol Area: Fixed icons (km/h, total mileage, TRIP cumulative mileage, gear position, fuel level, warning light, etc.)

Backlight: Standard high-brightness LED backlight (white/green/yellow/blue selectable) for clear night visibility

Electrical Characteristics

Low power consumption, DC drive, compatible with 12V/24V vehicle power supply

Receives Hall sensors / rotational pulse signals converted into speed and mileage by internal chip

Mileage data stored in non-volatile chips (EEPROM), retained when power is off

Main Applications

Automobile (Modified/Economy Type): Digital speed/mileage area on dashboard or as additional instrument

Special Vehicles: Forklifts, golf carts, off-road vehicles, agricultural machinery, industrial/engineering vehicles

Function Expansion: Besides speed/mileage, often integrates display of voltage, water temperature, fuel quantity, speed, time, fault codes

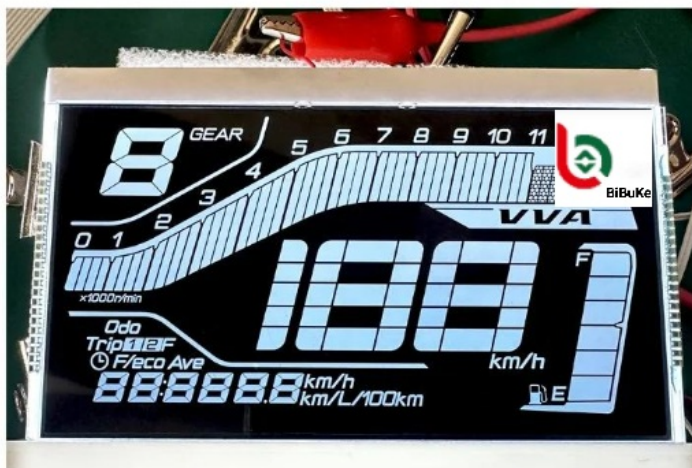
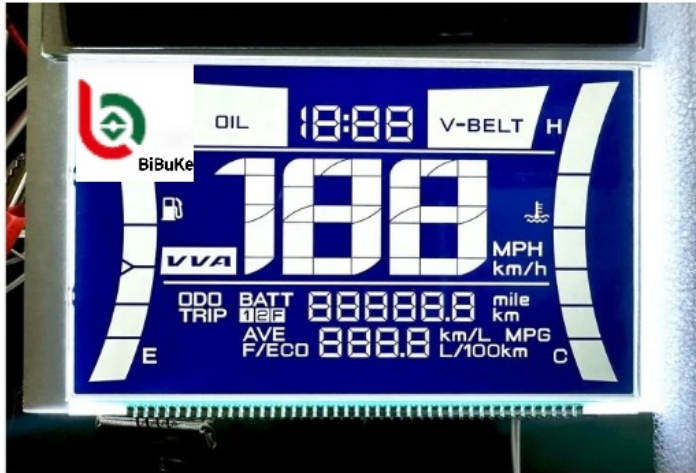
Core Advantages

Clear and Readable: Black background with white text, high contrast, wide viewing angle, clear in bright/dim light

Stable and Reliable: No mechanical wear, shock-resistant, temperature-resistant, long lifespan

Precise: Electronic sensing, accuracy within $\pm 0.5\%$

Low Cost: Segment code screens cheaper than TFT color screens with simpler driving



Frequently Asked Questions

I want the LCD display 8 digits and the outline size is 65x30x2.8mm?

No problem. Firstly, please kindly send us your specification/drawing paper. If you don't have the specification, you can also provide your samples; we will recommend the suitable one if it is standard products. Or we can customize for you based on your own requirement.

This LCD is just what we want, but it is big size, do you have any smaller size? And the display content need to be changed a little.

For the segment type LCD module, if you need to modify the outline size or display content, a new LCD glass module is needed. We have to

open new tooling for you.

This LCD display is HTN type, but I want STN type, can you make?

That's all right. We can change for you as per your request.

I want to customize a new LCD module. Can you do?

Yes, we can. Please send your drawing paper. If you don't have one, please advise the outline size of the LCD display, display information (Glass thickness, Polarizer, Display Type, Connector mode, Storage Temp, Operating Temp, Supply Voltage, Viewing direction, drive condition), we can customize for you.

What is leading time for tooling?

Generally speaking, it will cost 15 to 25 days after drawing paper confirmation and tooling charge payment. We can report you the exact time when you confirm the drawing paper.

Can you send us samples for checking?

Yes. Samples order is available.

What is the Leading Time?

If we have stock for the standard ones, the leading time is one day after payment. If it is the mass production for special ones, the leading time is about 15-30 days. If we can finish earlier, we will report the information in advance.

Our Services

1. Free repair within one year after the shipment of products from us.
2. Replacement within 30 days after the shipment of products from us due to products' problems.
3. We can print your logo and stick your model number on the cameras.
4. We have long cooperation with many shipping companies and our export volume is large. The shipping companies can offer us good discounts.
5. Professional technician supports. We have a good after-sales service team. They can solve your problems in time.
6. All goods will be inspected and tested by our engineers and QC/QA before packing and shipment.
7. Customer satisfaction is most important to us. If you have any problem or questions regarding our transaction, please contact us by Email or online. It will be responded within 24 hours.
8. Products pictures only for your reference. Please kindly refer to the specification. We can provide the products based on the specification, or you can offer your own specification or drawing. We can customize all kinds of LCD displays for you.



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