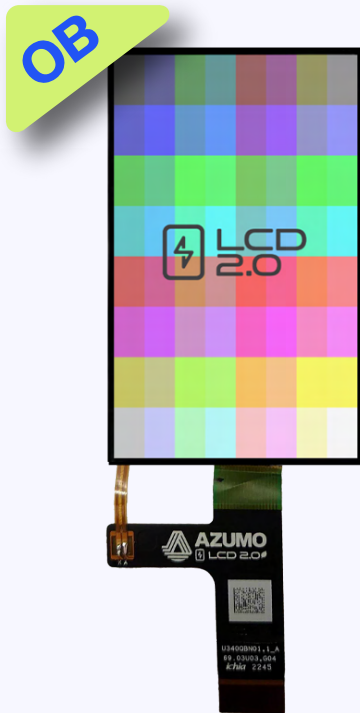


Overview

Azumo's next generation OB (Optical Bonding) front light maintains all of the benefits of LCD 2.0 technology with the added benefit of cover lens and touch film compatibility. LCD 2.0 can be used seamlessly in any lighting condition: from dark spaces to bright, direct sunlight. The reflective, MIP LCD technology enables Azumo's patented lightguide technology to deliver high quality images with ultra-low power consumption, extending the battery life of your device. The active matrix MIP LCD integrated with a highly efficient front light offers a superior user experience for a variety of applications where outdated, static HMI no longer suffices.

- ✓ Optical bonding capable (**Cover lens & touch film** compatible)
- ✓ One **low-power LED**
- ✓ SPI interface for **simple connectivity**
- ✓ 0.05mm thick, Azumo film is over **5x thinner** than alternative lightguides
- ✓ Up to **90% less power** compared to traditional BLU
- ✓ **Intrinsically safe** with wide temperature ranges
- ✓ Superior **readability** in all lighting conditions
- ✓ Sufficient **brightness** as low as 20 mW



[View Product Specification](#)

LCD Mfg P/N	Contact Azumo
Resolution	272 (H) x 451 (V)
Active Area	44.64 mm (H) x 74.01 mm (V)
PPI	155
Display Colors	64 Colors
Outline	47.24 mm (W) x 78.51 mm (H) x 0.86 mm (T)
Display Thickness	1.3 mm
Display Power Consumption (Static Image)	<4 mW
Display Power Supply Voltage	3.3V (Analog) & 5.0V (Digital)
Response Time, Rise + Fall	5 + 6 ms
Interface	SPI
Front Light Power Supply Voltage	3.0 V
Front Light Power Consumption	20 - 450 mW
Front Light Brightness, Typ	80 nits @ 300 mW
Front Light Brightness Uniformity, Typ	N/A
Contrast Ratio - Front Light On	12
Viewing Angle - Front Light On	53/48° (H) & 40/40° (V)
Storage temperature (C°)	-30°C ~ 80°C
Operating temperature (C°)	-20°C ~ 70°C

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***Preliminary data. May be updated as testing continues. Latest update: 06/06/2024**

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