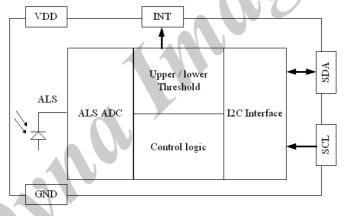
DYNA IMAGE 敦宏科技

Description

The AL3320 is a low power, 16-bit digital ambient light sensor [ALS] in a RoHS-compliant ODFN package. This device provides a dynamic range from 0.65k lux to 33.28k lux by choosing different dynamic ranges and analog gains. To reduce power consumption, AL3320 could be operated under programmable waiting modes.

AL3320 is ideal for applications of display panel brightness adjustments in mobile devices. This function benefits end users through improving eye comfort, and optimizing device battery life. Simplified ADC count-to-lux conversion and high manufacturing accuracy makes the device easy to use and minimize calibration need in MP.

Function Block Diagram Features



Digital Ambient Light Sensor

- I²C interface (FS at400k Hz)
- Mode Select : Operation/Power Down
- Built-in temperature compensation circuit
- Wide operating temperature range (-30°C to +80°C)
- Window loss compensation (see Pg.16: Calibration Register)
- Ambient Light Sensor
 - 16-bit effective linear output (0~65535)
 - 1 user selectable analog gain
 - 4 user selectable dynamic ranges for each analog gain
 - Anti-flicker rejection (reject 50/60Hz)
 - High sensitivity under darkened glass
 - Small form factor 1.6mm x 1.6mm x 0.7mm
 - RoHS compliant

Applications

- Mobile handsets
- Personal Navigation/Entertainment Device
- Tablet PCs, Laptops, Ultrabooks
- LCD/PDP TV backlight systems

Pin Description

	AL3320		
1	VDD	SCL	6
2	GND	INT	5
3	SDA	NC	4

Ordering Information

Part No.	Packing Type	Package	Quantity
AL3320	Tape and Reel	6Ld ODFN 1.6 x 1.6 x 0.7mm	2,500

Please be aware that an **Important Notice** concerning availability, disclaimers, and use in critical applications of DI products is at the end of this document.