

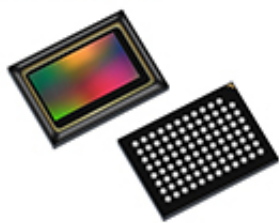
4D Imaging Millimeter Wave Radar Equips Vehicles with Superhuman Vision



Imagine a car driving in the rain. The camera lens is blurred by rainwater, and the LiDAR's accuracy is inevitably compromised. And yet even in these conditions, the millimeter wave radar system clearly outlines the contours of key targets on the road ahead.

[Learn more](#)

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Image Sensor - AR0820AT

The AR0820AT is a 1/2-inch CMOS digital image sensor with a 3848 H x 2168 V active-pixel array. This advanced automotive sensor captures images in either linear or high dynamic range, with rolling-shutter readout. [Learn more](#)

Solutions



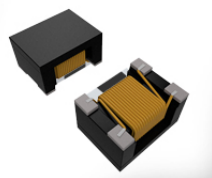
Unlocking the future of sensing with Avnet's 4D Millimeter Wave Radar

Known as 4D imaging millimeter wave radar, Avnet's S32R41+2*TEF82 dual-chip cascade program captures four critical dimensions: distance (Range), speed (Velocity), horizontal angle (Azimuth), and pitch angle (Elevation). [Learn more](#)

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Advanced EMI solutions with new automotive common mode chokes

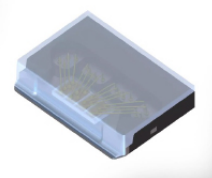
Amphenol



Amphenol

Ve-NET™

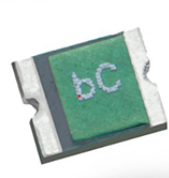
ams OSRAM



ams OSRAM

OSRAM SMT Laser, SPL S4L90A_3 A01

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Belfuse

High temperature SMD PTC 0ZT series

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Bourns AEC-Q200 compliant

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Molex

DuraClik connectors for reliable LiDAR integration

MPS



MPS

Smart diode controller MPQ5850-AEC1

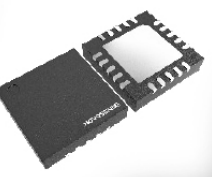
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Automotive ultrasonic radar sensor IC NSUC1800

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