Intelligence is Your Edge
Powered by Intel

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D3 Embedded   **LEOPARD IMAGING**

Intel® MIPI Camera Solutions

Intel provides cutting-edge technologies to power MIPI camera solutions, enabling high-speed imaging, low latency, and AI-driven enhancements. The MIPI CSI-2 interface ensures seamless data transfer, while the Intel® Image Processing Unit (IPU) optimizes image quality and computational efficiency. Intel Vision Accelerators and the OpenVINO toolkit enhance AI-based image processing, making real-time computer vision applications more efficient. For power efficiency and scalability, Intel integrates PCIe, LPDDR4/5, and low-power SoC architectures, supporting embedded and industrial use cases. Leveraging these technologies, Intel's ecosystem enables partners like D3 Embedded and Leopard Imaging to develop high-performance MIPI camera modules optimized for robotics, smart surveillance, and edge AI applications.

Intel Product and Technology

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Intel® Image Processing Unit (IPU) processes raw images captured by Bayer sensors. The result images are used by still photography and video capture applications (JPEG, H.264, and so on.). The latest IPU6 provides advanced imaging functionality for Intel® Core™ branded processors, as well as more specialized functionality for High Performance Mobile Phones, Automotive, Digital Surveillance Systems (DSS), and other market segments.