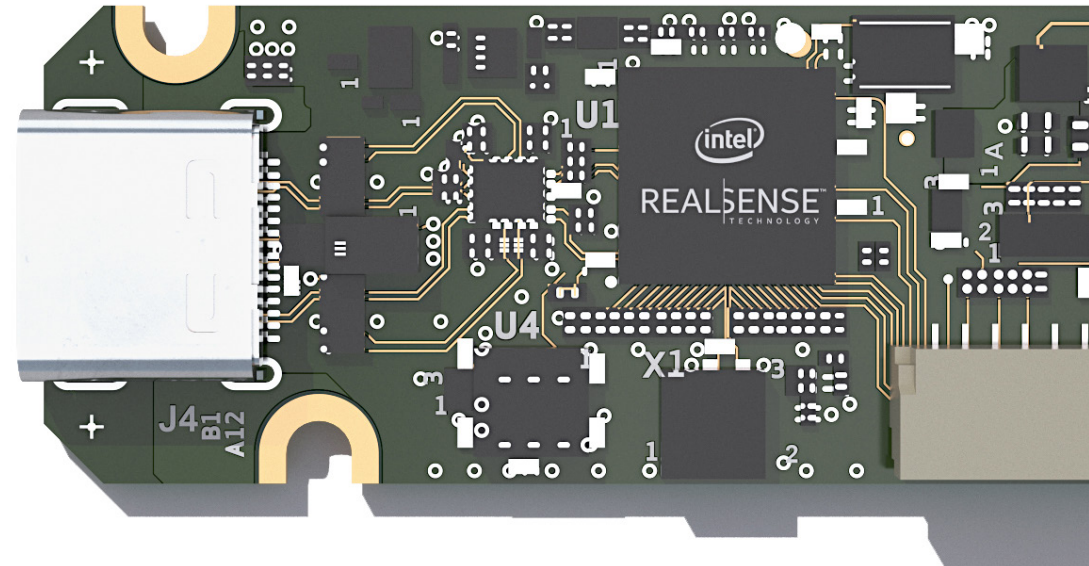# PRODUCT BRIEF
INTEL® REALSENSE™ D4 VISION PROCESSOR

Using advanced algorithms to process raw image streams from depth cameras, the Intel® RealSense™ Vision Processor D4 Series computes high-resolution 3D depth maps without requiring a dedicated GPU or host processor. Adding this vision processor to your system enables rapid custom design—freeing up more bandwidth for your system's host processor.

FEATURES

- Advanced stereo algorithms such as Semi Global matching, use of RGB channels, 128-bit disparity search
- Image rectification for camera optics and alignment compensation
- Active power gating
- Time stamping and real-time synchronizing across multiple sensors
- External synchronization with host

STEMMER®
IMAGING

INTEL® REALSENSE™
D4 VISION PROCESSOR FEATURES

FEATURES

Depth Technology	Stereo
Form Factor and Package	ASIC BGA
Package Size	6.4mm x 6.4mm x 1mm
Process Technology	28nm
Depth Max. Throughput	36.6 MP/sec (848x480@90fps)
Depth Stream Output Resolution	Up to 1280x720
Depth Stream Output Frame Rate	Up to 90fps
RGB Sensor Max Resolution & Max Frame Rate	1920x1080, Up to 60fps
IR Projector Controls	Yes
Host Interface	USB 3.0
Multi-Camera Support	Yes, up to 5
I/O	5x MIPI CSI-2, 5x I2C, 1x SPI, GPIO, Timer

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