

MicroVision's MEMS Based Consumer LiDAR engine delivers low latency, high fidelity spatial awareness to AI-embedded hardware and applications. This solution will enable new product offerings in indoor home automation, sensing and navigation by providing instantaneous depth data and thereby the ability to build contextual maps of spaces and acquire with ease the localization information of tracked objects.

By packaging this solution with machine learning at the edge, actionable data is provided directly to the application eliminating the need to send raw sensor data to the cloud for processing. This results in reduced system latency while maintaining user privacy.



**15.5
Mpts/sec**

Depth data throughput
(up to 20 Mpts/sec optional)



10m

Range (1 Klux ambient)



0.1° x 0.1°

Native angular resolution (H x V)



**Class
1**

Eye safe laser classification



ML

'Machine learning at the
Edge' capable



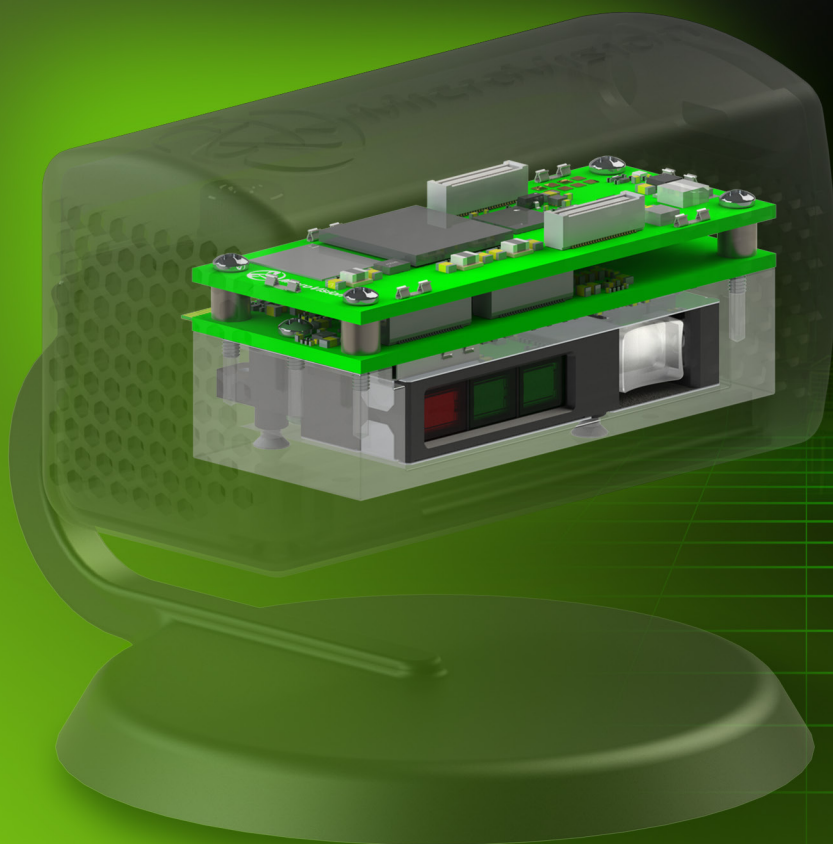
**16.7
msec**

Frame latency (default)



**13
cc**

Compact size (optical module)



PRODUCT BRIEF

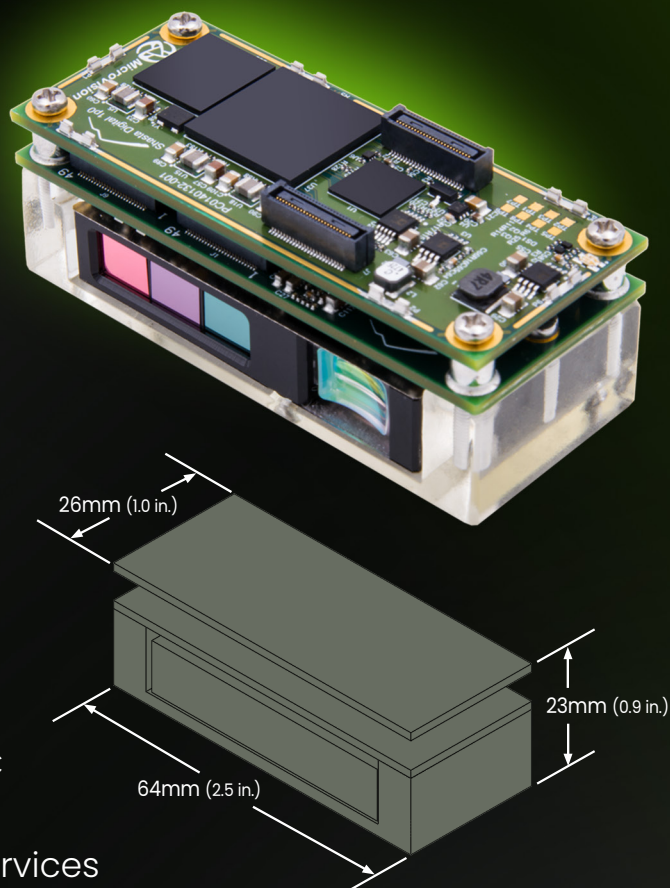
SPECIFICATIONS¹

Depth Data Throughput (typ.)	15.5 M pts/sec
Range (typ. @ 1 klux ambient)	10 m
Native Angular Resolution (H x V)	0.1° x 0.1°
Field of View (H x V)	64° x 36°
Diagonal Field of View	73°
Frame Acquisition Latency (default)	16.7 msec
Depth Accuracy (typ.)	≤ 1% of Range
Spatial Point Position Stability	≤ 0.01°
Mechanical Dimensions (nom.)	64 mm x 26 mm x 23 mm
Data and Control Interface	MIPI-CSI
Power	5V DC
Laser Safety Classification	Class 1, IEC 60825-1:2014

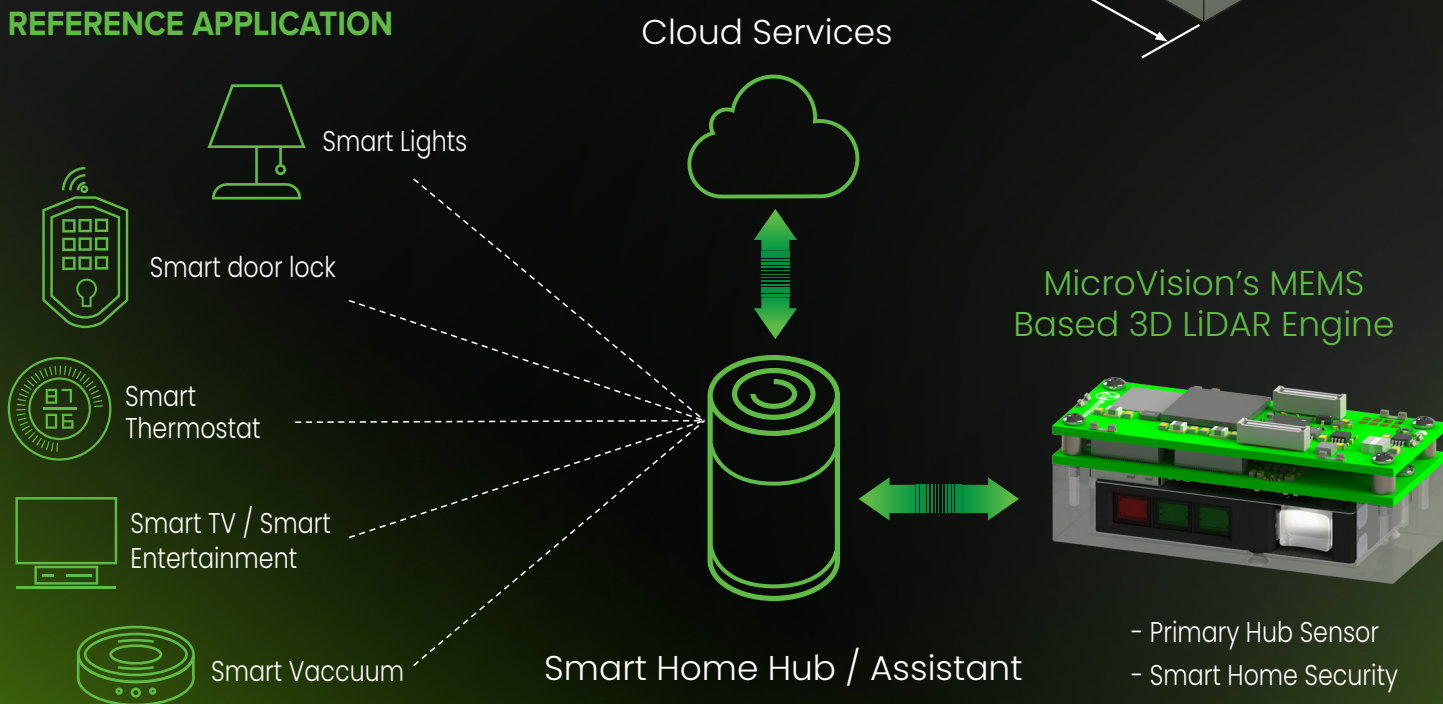
MODEL NUMBERS

Explorer Edition Engine	PSE-0400li3-101
Starter Kit (Optional)	MV-2400li3-101
	Kit includes: Data conversion board (MIPI-CSI to USB 3.x), USB-C to type A cable, 5V DC power supply, base plate

Explorer Edition



REFERENCE APPLICATION



¹Specifications subject to change without notice; Sold subject to MicroVision Terms of Sale.