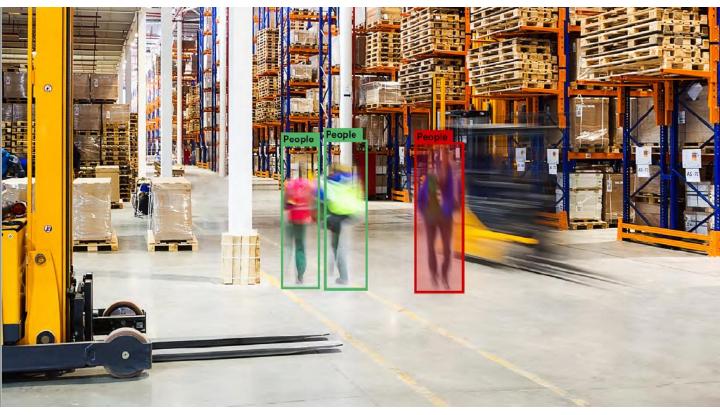
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AI Vision



Datasheet (08/2020)

AI Vision

MRS 'People Detection'







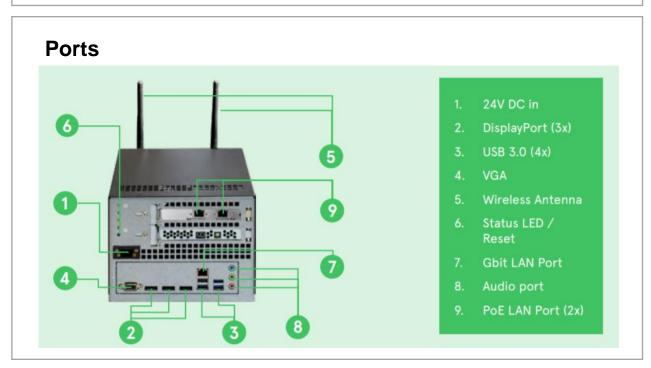


Description

Avnet Integrated's innovative intelligent vision technology platform is based on powerful embedded computing technologies and the use of artificial intelligence (AI). The marketready solution is designed for deep learning supported video analytics tasks at the edge.

The ready-to-use system platform includes powerful hardware components and software with optimized AI. The AI functionality enables intelligent processing of large amounts of data and recognition of recurring patterns, as well as self-learning analysis and evaluation in order to generate reliable decision-making support.

The intelligent vision platform enables quick and easy evaluation and testing of various video analytics functions on the basis of preconfigured functional building blocks. This creates the prerequisite for reducing the development effort for a specific application. The customer can bring their Al-based, highperformance end product to market relatively quickly and at optimized cost.



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Technical Data – MRS 'People Detection'

Board	
CPU	 Intel[®] Core[™] i7-9850HE (4.40 GHz, 6 cores 12 threats, 9M Cache)
RAM	 2 x 16GB 64bit DDR4 SODIMM 2x 260-pin SO-DIMM socket for up to 2x 16GB DDR4 SDRAM (DDR4-2666¹); dual channel operation; ¹Depending on SO-DIMM type
Chipset	 Intel[®] Platform Controller Hubs (PCH) QM370 or CM246
Connectivity	 802.11ac/abgn Dual-Band 2T2R Wi-Fi Bluetooth 5.0 2 x Gigabit LAN PoE+ RJ45 (10/100/1000Base-TX Ethernet)
Video	 VPU: Mustang-V100-MX8 (Eight Intel[®] Movidius[™] Myriad[™] X) Integrated Intel UHD graphics Gen. 9
Audio	 HD audio codec (Realtek ALC888) routed to 3x audio jacks and SPDIF on 5-pin header
Storage	 256 GB SATA SSD 6 Gb/s 2.5"/7mm cased 4x SATA channels (up to 6Gb/s) Flash SD Card socket
Serial	• 2x high-speed serial ports from PCH
USB	 4x USB 3.0 (USB 2.0 compliant), 4x USB 2.0
Display Interfaces	 DisplayPort/Three DisplayPort connectors Embedded DisplayPort/One 40-pin eDP connector LVDS/One 30-pin Jili connector
Bus Interfaces	 One PCI Express x4 interface (on PCI Express x16 socket); also usable as PEG slot LPC bus on 10-pin header; usable for optional POST code display

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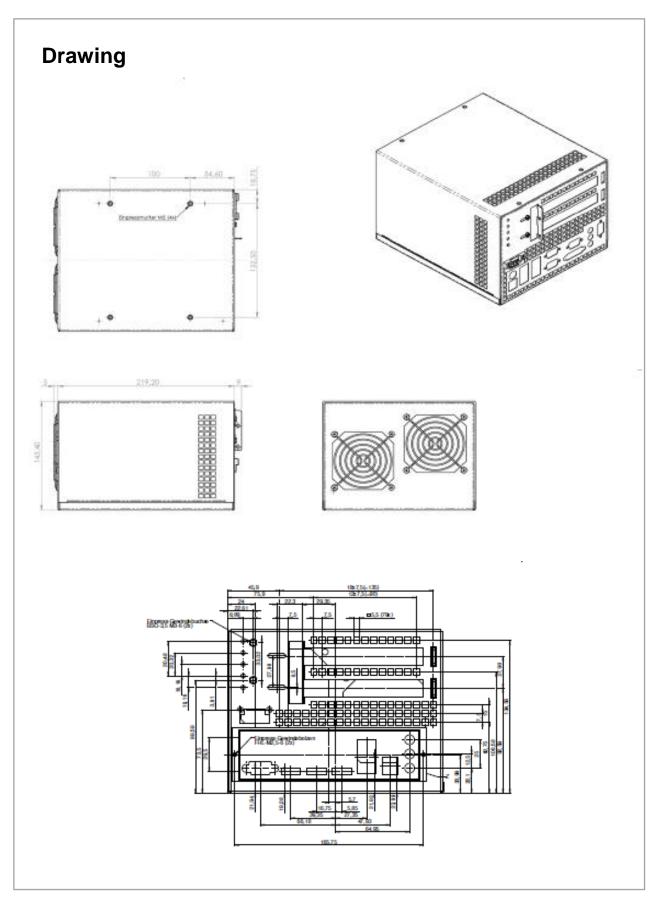
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Technical Data – MRS 'People Detection'

Case	 Solid high-quality industrial case 	
PCI	• 2 x PCI Express x16 expansion slot (low profile)	
Power Supply	 Internal: 400W 16-32V Input DC-DC ATX External: 220W 24V AC-DC High Reliability Industrial Adaptor 	
Ports	 4x USB 3.0 (USB 2.0 compliant) 3 x DisplayPort 1 x VGA 1 x RJ45 for LAN 10/100/1000 Mb/s 2 x Gigabit LAN PoE+ RJ45 4 x PCI Express interface (on PCI Express x16 socket) 3x audio jacks and SPDIF on 5-pin header 	
Ю	Isolated IO panel	
Operating Elements	 3 x Control LEDs Power/reset button beeper 	
Selectable mounting	 Optional: 4 x M4 hexagon socket screw & Support rails 	
Cooler Fans	• 2 x 80mm cooler fans (back)	
Dimensions	• 190 mm x 240 mm x 145 mm (W/D/H)	
Environment	 Operating temperatures: 0°C to +30°C 	
Peripherals	 2 x 2 MP IR Fixed Cube Network Camera (H.265+, H.265, H.264+, H.264, 1920 × 1080@30fps, POE) Wireless Touch Keyboard 	
Operating Systems (installed)		
	 Windows[®] 10 IoT Enterprise 2019 LTSC High End (ESD) 	

AI Vision

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