

4525

60,000

21,000,000

4,654,520	8,078,511
8,901,705	4,346,501
6,805,210	6,688,570



CPT320

GPU CPU AI FUSION COMPUTER

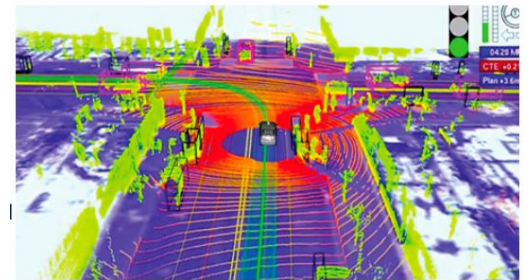
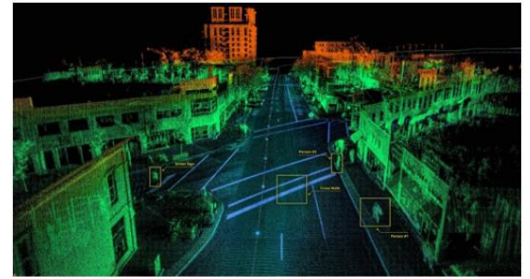


POWER AUTOMATION COMPUTER

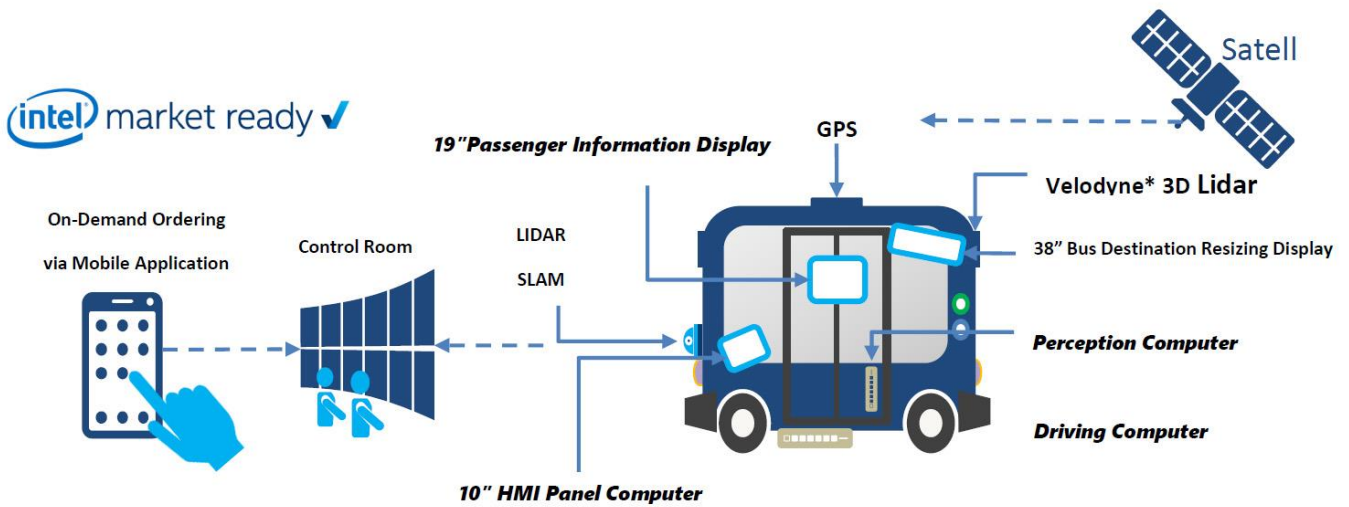
- Intel® 9th Gen. Core i7-9700TE Processor (1.8GHz turbo up to 3.8GHz, 8 cores)
- 2 x DDR4 SO-DIMM up to 32GB
- nVidia GTX1660 S GPU (CUDA Cores:1408) Graphic Card
- 4 x RJ45 LAN, 4 x USB, 5 x DP
- 2 x 2.5" Easy swap SSD/HDD Tray
- Extended Temperature -20~+60°C

● **Advances in unmanned vehicles technologies**

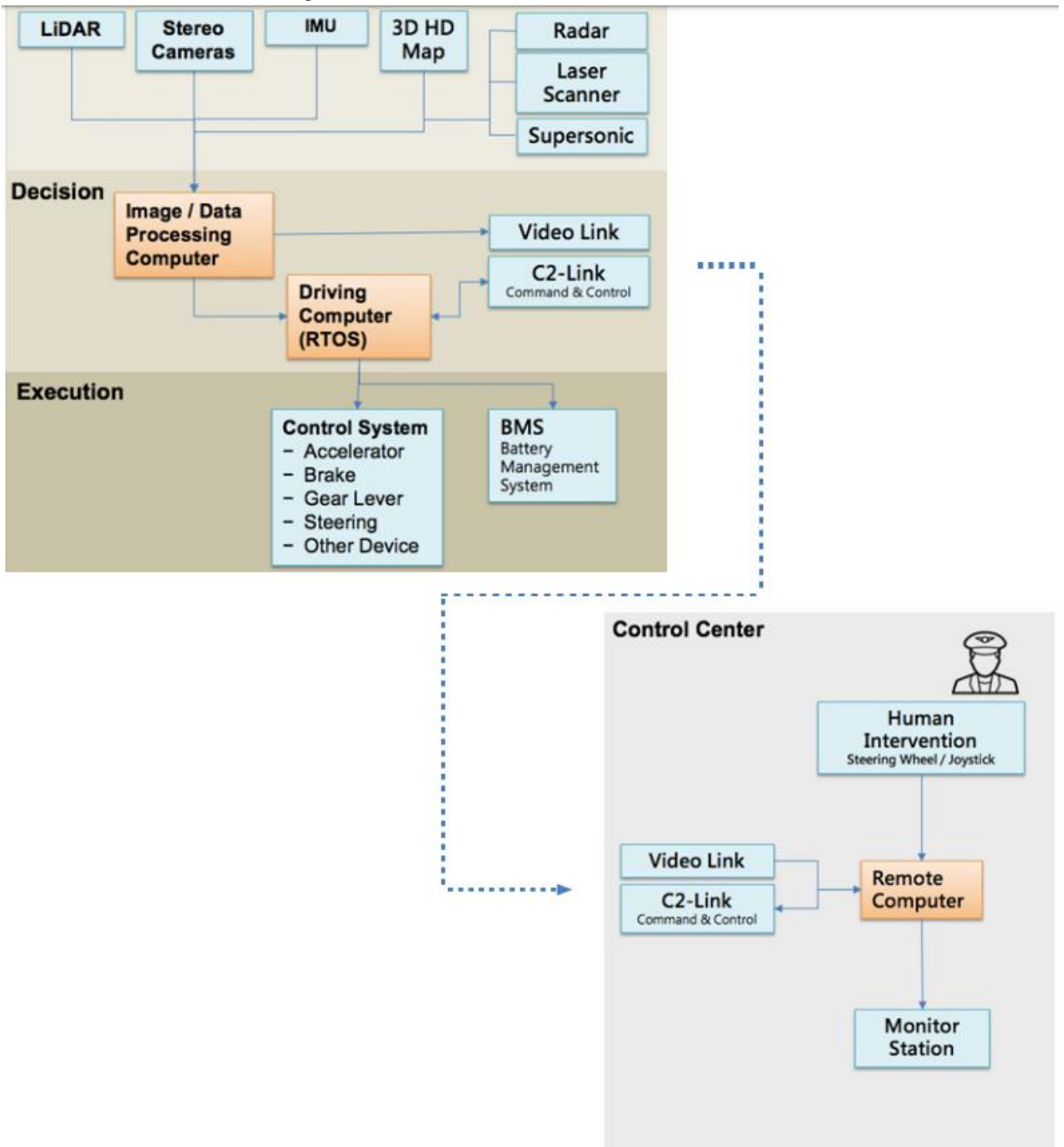
Unmanned Vehicle Technology integrates high-power processing computers, intelligence, drive-by-wire technology and perception sensing technologies. The trucks are equipped with LiDAR, RADAR, GPS, Vision, Advanced Algorithms, and, of course, very powerful computing capabilities. Generally a certain level of autonomous flight capability is required for the vehicle to achieve its mission. The basic autonomy level is to maintain its stability following a desired path under embedded guidance, navigation and control algorithm. The UGV technology trends indicate that to cope with the more stringent operation requirements, the UGVs should rely less and less on the skill of the ground pilot and progressively more on the autonomous capabilities dictated by a reliable onboard computer system.



● **Advances in unmanned vehicles technologies**



• Architecture of UGV IT Diagram



Specifications

SYSTEM

CPU	Intel® 9th Gen Core™ i7-9700TE (Frequency 1.8GHz, Turbo Boost Frequency up to 3.8GHz), 8 Cores, 12MB SmartCache. Build-in HD Graphics 630 for excellent 3D,Turbo Boost Technology 2.0, VPro support
Memory type	2 x DDR4 SO-DIMM up to 32GB
Chipset	Intel® Q370 Chipset providing integrated USB 3.0 and supporting 8th /9th generation Intel® Core™ processor families
Expansion Slot	1 x M.2 (KEY E, 2230) with PCIe x1 and USB 2.0 for Wireless 1 x M.2 (KEY M, 2242/2260/2280) with PCIe x4 and SATA3 for SSD

DISPLAY

GPU	GTX1660 S GPU (CUDA Cores:1408)
Display Port	Resolution up to 3840 x 2160@60Hz

STORAGE

M.2	M.2 Solid State Disk (SSD) - up to 1TB Capacity. Rugged Industrial NAND Flash mSATA Storage w/ Rugged -40/+85C High Capacity, optional Pre-loaded with Linux or Windows OS. 128 / 256 / 512GB /1TB Innodisk 3MV2-P Series MLC SATA III 6Gb/s Flash SSD, Rated for 520 MB/sec Sequential Read ; 350 MB/sec Write Max.
SSD/HDD	2 x 2.5" Drive Bay

ETHERNET

Ethernet	2 x Intel Gigabit Ethernet LAN Interfaces (10/100/1000Mbps)
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REAR I/O

DisplayPort	5 x 20Pin DisplayPort connectors (Female)
Ethernet	2 x RJ45 Gigabit Ethernet LAN Interfaces 4 x RJ45 Gigabit Ethernet LAN Interfaces (Optional)
Serial Port	2 x DB9 connector RS-232 (Optional)
Button	1 x Power Button with LED
DC-IN	4P Rugged Terminal connector, DC 12V
Indicator LED	HDD Active LED

APPLICATIONS, OPERATING SYSTEM

Applications Commercial and Military Platforms Requiring Compliance to MIL-STD-810G Embedded Computing, Process Control, Intelligent Automation and manufacturing applications where Harsh Temperature, Shock, Vibration, Altitude, Dust and EMI Conditions. Used in all aspects of the military.

Operating System Windows 7 , Windows 8 , Windows 8.1 , Windows 10 Ubuntu13.04, Ubuntu13.10, Ubuntu14.04, Fedora 20

PHYSICAL

Dimension (W x D x H) 250 x 225 x 98mm

Weight 5.5Kg

Chassis SECC + Aluminum Alloy, Corrosion Resistant.

Finish Anodic aluminum oxide (Color silver)

Cooling Natural Passive Convection/Conduction. No Moving Parts

Ingress Protection Dust Proof (Similar to IP50)

ENVIRONMENTAL

MIL-STD-810G Test Method 507.5, Procedure II (Temperature & Humidity)
Method 516.6 Shock-Procedure V Non-Operating (Mechanical Shock)
Method 516.6 Shock-Procedure I Operating (Mechanical Shock)
Method 514.6 Vibration Category 24/Non-Operating (Category 20 & 24, Vibration)
Method 514.6 Vibration Category 20/Operating (Category 20 & 24, Vibration)
Method 501.5, Procedure I (Storage/High Temperature)
Method 501.5, Procedure II (Operation/High Temperature)
Method 502.5, Procedure I (Storage/Low Temperature)
Method 502.5, Procedure II (Operation/Low Temperature)
Method 503.5, Procedure I (Temperature shock)

Operating Temperature -20 to 60°C (ambient with air flow)

IStorage Temperature -40 to 85°C

EMC CE and FCC compliance

Ordering Information

CPT320

Fanless Rugged Server with Intel® 9th gen Core i7-9700TE, GTX1660 S GPU (CUDA Cores:1408), Dual LAN, Operating Temperature -20~+60°C

CPT320L

Fanless Rugged Server with Intel® 9th gen Core i7-9700TE, NVIDIA GTX1060M, Quad LAN, Operating Temperature -20~+60°C

Dimensions

