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



# IV320CS-T

Rugged Intel® 9th Gen Core™ i7-9700TE  
MXM AI Edge Computer



- Intel® 9th Gen Core™ i7-9700TE ( Frequency 1.8GHz, up to 3.8GHz )
- 2 x DDR4 SO-DIMM up to 64GB (32GB per DIMM)
- 1 x MXM with PCIe x16 Lanes (Gen3) supports NVIDIA RTX 2060S (optional)
- 4 x USB 3.1, 2 x LAN, 4 x DP 1.2, 1 x COM,
- 2 x 2.5" SATA SSD Easy Swap Tray
- 1 x M.2 ( KEY E) 1 x M.2 ( KEY M, 2242/2260/2280 )
- Wide range DC-Input 12-36V DC (optional)
- MIL-STD 810 compliant

# Specifications

## SYSTEM

CPU	Intel® 9th Gen Core™ i7-9700TE ( Frequency 1.8GHz, Turbo Boost Frequency up to 3.8GHz ), 8 Cores, 12MB SmartCache.
Memory type	Dual Channel DDR4 2666 MHz, 64GB* *Intel Core i9/i7/i5 CPUs support up to 64GB (32GB per DIMM) Intel Core i3 CPUs support up to 32GB (16GB per DIMM)
CHIPSET	Intel® Q370 Chipset
GPU	- RTX2060S (CUDA Core: 2176, 8GB GDDR6) (optional) - NVIDIA® GTX series (optional)
GRAPHICS	Intel® Gen9 Graphics DX 11 / 12
Expansion Slot	1 x M.2 (KEY E, 2230) with PCIe x1, CNVi and USB 2.0 for Wireless 1 x M.2 (KEY M, 2242/2260/2280) with PCIe x4 and SATA3 1 x M.2 (KEY M, 2242/2260/2280) with PCIe x4 and SATA3
BIOS	AMI SPI 128 Mbit

## DISPLAY

Display	DisplayPort 1.2, DP++ Max resolution up to 4096 x 2304@60Hz
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## STORAGE

SATA	2 x 2.5" SSD, Hot Swappable SSD/HDD slot
M.2	2 x M.2 (Key M, 2242 / 2260 / 2280) with PCIe x4 & SATA3 for SSD

## ETHERNET

Ethernet	2 x Intel® Gigabit Ethernet LAN1: 1 x Intel® I210 with 10/100/1000 Mbps LAN2: 1 x Intel® I219LM with 10/100/1000 Mbps,
PoE (optional)	Via 1x M.2 (KEY M) to 2 x isolated GbE LAN ports 2 x independent PSE channels Complies with IEEE 802.3af, up to 15.4W at 48V per PoE port

## FRONT I/O

Display	4 x DP 1.2
Ethernet	2 x 1 Gigabit LAN
USB	4 x USB 3.1 (Gen1)
HDD Tray	2 x 2.5" SSD Tray
COM	COM1 (RS-232)
Indicator	1 x HDD indicator

On/off 1 x Power Button, w/power on indicator

**REAR I/O**

Antenna 4 x Antenna Hole

DC-IN 1 x 4-pin DC terminal block (optional for wide voltage)

**POWER**

Power input 12V (Standard)  
12 ~36V (optional)  
(P.S. 18~36V 300W power adaptor for equipped NVIDIA RTX2060S )

**OPERATING SYSTEM**

OS Windows® 10 64-bit / Linux (support by request)

**PHYSICAL**

Dimension 246(L) x 313.5 (W) x 100 (H)mm

Weight (TBD)

Chassis SECC

Heatsink Heatsink Aluminum Alloy, Corrosion Resistant

**ENVIRONMENTAL**

Green Product RoHS, WEEE compliance

Operating Temp. -20 to 55°C

Storage Temp. -40 to 85°C

Relative Humidity 5% to 95%, non-condensing

**MIL-STD-810 SPECIFICATIONS (OPERATING )**

Method 502.5 Low Temperature -20°C, 4 hours, ±3°C  
Procedure 2

Method 501.5 High Temperature +55°C, 4 hours, ±3°C  
Procedure 2

Method 507.5 Humidity 85%-95% RH without condensation,  
24 hours/ cycle, conduct 10 cycles.

Method 514.6 Vibration 5-500Hz, Vertical 2.20Grms, 40mins x 3axis.

Method 516.6 Shock 20 Grms, 11ms, 3 axes.

**MIL-STD-810 SPECIFICATIONS (NONE-OPERATING)**

Method 502.5 Low Temperature -33°C, 4 hours, change rate: ≤ 20°C/ Hour  
Procedure 1 Storage -15°C, 72hours (By request)

Method 501.5 High Temperature +71°C, 4 hours, change rate: ≤ 20°C/ Hour  
Procedure 1 Storage +63°C, 240 hours (By request)

Method 514.6	Vibration	5-500Hz, Vertical 2.20Grms, 40mins x 3axis.
Method 516.6	Shock	20 Grms, 11ms, 3 axes.

## Ordering Information

### IV320CS-T12

Intel® 9th Gen Core™ i7-9700TE MXM AI Edge Computer, Q370, 2xDDR4 , 1xCOM,4 xDP,4x USB3.1, 2 x LAN, Extended Temp. -20 ~ 55°C, 12VDC IN

### IV320CS-T36

Intel® 9th Gen Core™ i7-9700TE MXM AI Edge Computer, Q370, 2xDDR4 , 1xHDMI,2 xDP,4x USB3.1, 2 x LAN, Extended Temp. -20 ~ 55°C, 12~36VDC IN

### IV320CS-T36-POE

Intel® 9th Gen Core™ i7-9700TE MXM AI Edge Computer, Q370, 2xDDR4 , 1xHDMI,2 xDP,4x USB3.1, 2 x LAN, 2 x PoE , Extended Temp. -20 ~ 55°C, 12~36VDC IN

### IV320CS-T36-R2060S

Intel® 9th Gen Core™ i7-9700TE MXM AI Edge Computer, Q370, 2xDDR4 , 1xHDMI,2 xDP,4x USB3.1, 2 x LAN, RTX2060S MXM VGA CARD, Extended Temp. -20 ~ 55°C, 18~36VDC IN

# Dimensions

