



# Tensor PC By Compulab



## Tensor-I20 pre-configured barebone versions

Revision 2.0  
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## Tensor-I20 Multi-LAN

Tensor-I20 Multi-LAN is a fanless, fully configurable industrial PC, featuring 9 LAN ports and full PC capabilities.

Ideal for Firewalls, switches, routers, virtual servers, etc.



### Features

- Intel Core i5-9300H CPU at 25W
- Up to 64GB DDR4 RAM
- 1x DisplayPort + 1x mini DisplayPort + 1x HDMI
- 1x M.2 Key-M for optional NVMe storage
- **9x 1GbE full-bandwidth LAN**
- 4x USB 3.1
- 1x M.2 Key-E with Wi-Fi / BT module
- 1x M.2 Key-B for optional M.2 Cellular modem
- Headphones out + mic. in on 3.5mm jacks
- Power: 12V, including 100-240V 60W PSU and AC cord
- Enclosure: Width 30cm | Internal height 25mm | Ribs 10mm
- Dimensions: 20x30x3.5cm

**Full PN: TENSOR-I20A-EW30-EH25A-ECR10-C9300-WX200-FCA\*2-FD-FEA-FF-FG-FI-FJ-FK-FO**

### Optional installations:

**RAM:** Non ECC 8GB/16GB/32GB/64GB | ECC 16GB/32GB/64GB

**Storage:** NVMe SSD 256GB/1TB

**Wi-Fi/BT:** Wi-Fi 6/ Bluetooth 5.1 AX200

**Modem:** LTE Modem Sierra EM7455

**TPM:** TPM 2.0 Infineon SLM 9670AQ2.0

**OS:** Windows 10 Professional / Linux Mint

### TEs in the configuration:

1x	PM-12V	-	Power module for 12VDC with twist lock, Incl. 60W PSU
2x	TEL-LAN4	-	4x Gbit Ethernet
1x	TEL-AUDIO		Analog headphones / line-out + microphone on 2x 3.5mm
1x	TEL-USB3X4V	-	4x USB 3.1 type A
1x	TEL-NVME	-	Compartment for an M.2 NVMe SSD
1x	TEL-STD	-	DisplayPort + Gbit Ethernet
1x	TEL-M2B	-	Compartment for M.2 key-B card with SIM card tray + 2 antennas
1x	TEL-M2E	-	Compartment for M.2 key-E card + 2 antennas
1x	TEL-HDMIMINIDP		HDMI + mini DisplayPort

### Common configuration changes for this model:

- Processor options: Intel Xeon E-2276ML/Core i7-9850HL/i5-9300H/i3-9100HL/Celeron C4932E
- Reduction in quantity of LAN ports
- Additional USB ports

Note: Some configuration changes may require enclosure enlargement

## Tensor-I20 Multi-COM

Tensor-I20 Multi-COM is a fanless, fully configurable industrial PC, featuring 8 RS232/RS485 half/full duplex ports and full PC capabilities.

Ideal for industrial control stations, test and measuring equipment, bar code scanners and other point of sale devices.



### Key features

- Intel Celeron G4932E CPU at 15W
- Up to 64GB DDR4 RAM
- 1x DisplayPort
- 1x M.2 Key-M for optional NVMe storage
- 1x GbE LAN
- 8x RS-232/RS-485 on DB9
- 4x USB 3.1
- 1x M.2 Key-E with Wi-Fi / BT module
- Power: 12V, including 100-240V 60W PSU and AC cord
- Enclosure: Width 20cm | Internal height 49mm | Ribs 10mm
- Dimensions: 20x20x5.9cm

**Full PN: TENSOR-I20A-EW20-EH49AC-ECR10-C4932-FEA-FF-FG-FH\*2-FHB\*6-FJ-FO**

### Optional installations:

**RAM:** Non ECC 8GB/16GB/32GB/64GB | ECC 16GB/32GB/64GB

**Storage:** NVMe SSD 256GB/1TB

**Wi-Fi/BT:** Wi-Fi 6/ Bluetooth 5.1 AX200

**TPM:** TPM 2.0 Infineon SLM 9670AQ2.0

**OS:** Windows 10 Professional / Linux Mint

### TEs in the configuration:

- |    |               |   |
|----|---------------|---|
| 1x | PM-12V -      | Power module for 12VDC with twist lock, Incl. 60W PSU |
| 1x | TEL-USB3X4V - | 4x USB 3.1 type A                                     |
| 1x | TEL-NVME -    | Compartment for an M.2 NVMe SSD                       |
| 1x | TEL-STD -     | DisplayPort + Gbit Ethernet                           |
| 2x | TEL-SERX4 -   | Up to 4x RS-232/RS-485 on DB-9                        |
| 6x | TEL-SERDB9    | DB9 extension (used w/ TEL-SERX4)                     |
| 1x | TEL-M2E -     | Compartment for M.2 key-E card + 2 antennas           |

### Common configuration changes for this model:

- Processor options: Intel Xeon E-2276ML/Core i7-9850HL/i5-9300H/i3-9100HL/Celeron C4932E
- Reduction in quantity of RS-232/RS-485 ports
- Additional USB ports

Note: Some configuration changes may require enclosure enlargement

## Tensor-I20 Multi-PoE

Tensor-I20 Multi-PoE is a fanless, fully configurable industrial PC, featuring **8 PoE source (PSE)** ports and full PC capabilities.

Ideal for VoIP phones, IP cameras including PTZs, WAPs, IP TV (IPTV) decoders, Network routers, etc.



### Key features

- Intel Core i5-9300H CPU at 25W
- Up to 64GB DDR4 RAM
- 1x DisplayPort + 1x mini DisplayPort + 1x HDMI
- 1x M.2 Key-M for optional NVMe storage
- 1x GbE LAN
- **8x 1GbE full-bandwidth PoE source**
- 4x USB 3.1
- 1x M.2 Key-E with Wi-Fi / BT module
- 1x M.2 Key-B for optional M.2 Cellular modem
- Headphones out + mic. in on 3.5mm jacks
- Power: 1x 12V + 1x 12-56V, inc. 2x 100-240V 60W PSU
- Enclosure: Width 30cm | Internal height 25mm | Ribs 20mm
- Dimensions: 20x30x4.5cm

**Full PN: TENSOR-I20A-EW30-EH25A-ECR20-C9300-WX200-FD-FEA-FF-FG-FI-FJ-FK-FO-FP-FU\*4**

### Optional installations:

**RAM:** Non ECC 8GB/16GB/32GB/64GB | ECC 16GB/32GB/64GB

**Storage:** NVMe SSD 256GB/1TB

**Wi-Fi/BT:** Wi-Fi 6/ Bluetooth 5.1 AX200

**Modem:** LTE Modem Sierra EM7455

**TPM:** TPM 2.0 Infineon SLM 9670AQ2.0

**OS:** Windows 10 Professional / Linux Mint

### TEs in the configuration:

- 1x PM-12V - Power module for 12VDC with twist lock, Incl. 60W PSU
- 1x PM-WIDE - Power module for 12-56VDC with lock, Incl. 120W PSU
- 1x TEL-AUDIO - Analog headphones / line-out + microphone on 2x 3.5mm
- 1x TEL-USB3X4V - 4x USB 3.1 type A
- 1x TEL-NVME - Compartment for an M.2 NVMe SSD
- 1x TEL-STD - DisplayPort + Gbit Ethernet
- 1x TEL-M2B - Compartment for M.2 key-B card with SIM card tray + 2 antennas
- 1x TEL-M2E - Compartment for M.2 key-E card + 2 antennas
- 1x TEL-HDMIMINIDP - HDMI + mini DisplayPort
- 4x TEL-POEX2 - 2x Gbit Ethernet with PSE PoE (802.3at Type 1, 13W per port) on RJ45

### Common configuration changes for this model:

- Processor options: Intel Xeon E-2276ML/Core i7-9850HL/i5-9300H/i3-9100HL/Celeron C4932E
- Reduction in quantity of PoE ports
- Additional USB ports

Note: Some configuration changes may require enclosure enlargement

## Tensor-I20 Multi-IoT

Tensor-I20 Multi-IoT is a fanless, fully configurable industrial PC, featuring IoT interfaces and full PC capabilities.

Ideal for IoT Gateways and Industrial Control stations.



### Key features

- Intel Celeron G4932E CPU at 15W
- Up to 64GB DDR4 RAM
- 1x DisplayPort
- 1x M.2 Key-M for optional NVMe/SATA storage
- 1x GbE LAN port
- 4x RS-232
- 1x CAN bus
- 4x GPIO
- 4x USB 3.1
- 1x M.2 Key-E with Wi-Fi / BT module
- 1x M.2 Key-B for optional M.2 Cellular modem
- Power: 12V, including 100-240V 60W PSU and AC cord
- Enclosure: Width 20cm | Internal height 25mm | Ribs 10mm
- Dimensions: 20x25x3.5cm

**Full PN: TENSOR-I20A-EW20-EH25A-ECR10-C4932-WX200-FEA-FF-FG-FH-FHB\*3-FI-FJ-FO-FQ-FS**

### Optional installations:

**RAM:** Non ECC 8GB/16GB/32GB/64GB | ECC 16GB/32GB/64GB

**Storage:** NVMe SSD 256GB/1TB

**Wi-Fi/BT:** Wi-Fi 6/ Bluetooth 5.1 AX200

**Modem:** LTE Modem Sierra EM7455

**TPM:** TPM 2.0 Infineon SLM 9670AQ2.0

**OS:** Windows 10 Professional / Linux Mint

### TELS in the configuration:

- 1x PM-12V - Power module for 12VDC with twist lock, Incl. 60W PSU
- 1x TEL-USB3X4V - 4x USB 3.1 type A
- 1x TEL-NVME - Compartment for an M.2 NVMe SSD
- 1x TEL-STD - DisplayPort + Gbit Ethernet
- 1x TEL-SERX4 - Up to 4x RS-232/RS-485 on DB-9
- 3x TEL-SERDB9 - DB9 extension (used w/ TEL-SERX4)
- 1x TEL-CANBUS - Isolated CAN bus on DB9
- 1x TEL-M2B - Compartment for M.2 key-B card with SIM card tray + 2 antennas
- 1x TEL-M2E - Compartment for M.2 key-E card + 2 antennas
- 1x TEL-GPIO - Terminal block of 4x GPIO + 4 headers of 4 GPIO each

### Common configuration changes for this model:

- Processor options: Intel Xeon E-2276ML/Core i7-9850HL/i5-9300H/i3-9100HL/Celeron C4932E
- Additional GPIO ports
- Additional RS-232/RS-485 ports
- Additional USB ports

Note: Some configuration changes may require enclosure enlargement