

Transduction

TR-ALASKA

Can Operate Down to -50°C (-58°F)

TR-ALASKA Industrial Panel/Rack Computer w/ 19" LCD



The TR-ALASKA is an all-in-one industrial panel or rack mount computer with extended temperature range down to -20°C (-4°F). It can be supplied with modern multicore i5/i7 Intel processor or in legacy version for compatibility with older Microsoft operating systems. Optional power is 120VAC, 220VAC or 24VDC, 48VDC, 125VDC and 250VDC.

Each computer is tested for cold start from -20°C (-4°F). Heating elements are used to warm up interior parts. Relay connects power to the computer when internal temperature reaches 0°C (32°F). Time delay for warm up is approximately 30 minutes when ambient temperature is -20°C (-4°F).

The purpose of the internal heaters is to prevent cold start where different expansion rates of the semiconductor substrates can cause component breakdowns.

When the interior temperature reaches 0°C (32°F), the heaters disconnect. There is enough heat from the internal components for proper operation of the computer. The internal temperature can be displayed on the screen with popular shareware programs that take data from the BIOS.

Please note that once the computer is under power there is enough internal heat for operation down to -50°C (-58°F). Only the cold start at low temperature can cause breakdown.

The TR-ALASKA is manufactured by Transduction in Canada. Warranty is 3 years. Please call our Transduction sales team for assistance with configuration of your choice or email sales@transduction.com.

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Specifications

Model

- TR-ALASKA Industrial panel/rack mount computer with Intel i5 9th generation processor and 19" LCD display with USB resistive touch screen
- Front panel NEMA 4 rated

Processor

- Intel i5 9th Gen. 6-core 3.0GHz, 4.6GHz turbo

Chipset

- Intel Q370, available until 2032

BIOS

- AMI BIOS, ACPI supported

LCD Display

- Resolution - 1280 x 1024 (XGA)
- Contrast ratio - 1000:1
- Brightness - 1600cd/m2
- USB Resistive touch screen or safety glass

Memory

- 2 x DDR4 2666MHz upto 32GB

LAN

- 1 x Intel Gigabit LAN
- 1 x Intel Gigabit PHY LAN

Graphics

- Intel UHD, external 4K on DisplayPort
- Dual independent display support

Expansion Slots

- 3 x PCI, 1 x PCIe x4 and 1 x PCIe x16 slots

Real Time Clock

- Lithium battery backup

Storage

- High Speed 1TB SATA SSD with POWERGUARD

I/O Ports

- 4 x USB3.1 ports, 2 x RS232/422/485 ports, 1 PS/2 keyboard and mouse port

Watch-Dog Timer

- Generates system reset: 256 levels

Shipping Weight/Dimensions

- Weight - 25.8kg (57 lbs)
- Dimensions - 68.6cm (L) x 40.6cm (W) x 60.9cm (H) (27" (L) x 16" (W) x 24" (H))

Operating Temperature

- -20 ~ 50°C (-4 ~ 122°F), 60°C (140°F) for 2 hours
- -50°C (-58°F) when warmed up.

Operating Humidity

- Relative humidity 10 ~ 90%, non-condensing

Storage Temperature

- -20 ~ 70°C (-4 ~ 158°F)

Storage Humidity

- Relative humidity 40% max.

Power

- Universal 500W ATX power supply
- Optional DC power - 24, 48, 125 and 250VDC

Applicable QA Standard

- ISO 9001:2015
- Safely packaged to standard ASTM-D3951

Warranty: 3 years

Compatible with Windows 10/11

Additional Options

- SATA RAID1 option
- IRIG A/B time sync option
- Safety glass in place of touch screen