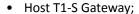# T1-S Micro TDG™

Business Value

- High-power data logging, logical computations, and field device interconnection.
- Meets requirements for secure data telemetry between field devices and energy management systems.
- Eliminates need for separate devices for Data Telemetry and Data Logging.
- Integrates seamlessly with T1-S Aggregated RIGs, thereby eliminating the cost of individual, secure connections to host utilities or ISOs.

Powerful Computing in an Ultra-Compact Package

Trimark's T1-S Micro TDG is an environmentally hardened, industrial computer that hosts T1-S Gateway, Trimark's data gathering and processing application. Built from solid state components, the T1-S Micro TDG communicates with field instruments and network devices that monitor electric power generation facilities. The T1-S Micro TDG is designed to:

- Host T1-S Gateway;
- Support secure data telemetry between field devices and control systems;
- Provide both data telemetry and data logging;
- Integrate seamlessly with T1-S RIGs; and
- Support auto failover for redundant systems.

Specifications

Processor

- 5th generation Intel® Core™ i5-52S0U processor (1.6 GHz up to 2.7 GHz Turbo Dual Core, 3 MB Cache, 15W TDP)
- Supports Intel® Hyper-Threading Technology
- Supports Intel® 64 architecture

System Memory

- Two DDR3L SO-DIMM sockets (up to 16 GB, 1333/1600 MHz) in dual channel configuration, 1.35V

Storage Capabilities

- One M.2 Type M connector supporting 22x42, 22x60, and 22x80 SATA or PCIe8 SSDs

For all your mission critical solutions — we'll be there!

Peripheral Connectivity

- Integrated Intel® Gigabit LAN
- Four Super Hi-Speed USB 3.0 ports (two back panel ports and two front ports including one charging port)
- Two additional Hi-Speed USB 2.0 ports via internal header

Hardware Management Features

- Processor fan speed control
- Voltage and temperature sensing
- Fan sensor inputs used to monitor fan activity
- ACPI-compliant power management control

Expansion Capabilities

- One NFC header
- 2x Internal USB 2.0 ports via 1x8 header (for replaceable lid support)
- One AUX_PWR header

Front-Panel Connectors

- Reset, HDD LED, Power LEDs, power on/off

Mechanical Chassis Size

- 4.53" x 4.37" x 1.36"

Baseboard Power Requirements

- 19V, 65W wall-mount AC-DC power adapter
- Multi-country AC adapter (IEC plug types A, C, G, and I)

Environment Operating Temperature

- 0° C to +50° C

Storage Temperature

- -20° C to +70° C

Product Safety Regulations And Standards

- IEC 60950-1
- UL 60950-1
- EN 60950-1
- CAN/CSA-C22.2 No. 60950-1

EMC Regulations And Standards (Class B)

- CISPR 22
- FCC CFR Title 47, Chapter I, Part 15, Subparts A, B
- ICES-003
- EN 55022
- EN 55024
- VCCI V-3, V-4
- KN-22
- KN-24
- CNS 13438

Environmental Regulations

- RoHS Directive 2011/65/EU
- WEEE Directive 2002/96/EC

Trimark ASSOCIATES, INC.

A Proven Player in the Energy Market

Trimark Associates, Inc. develops reliable, affordable business and operational solutions that support compliance and optimization of power production.

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