TECH-2272G

Intel Celeron Palm-Size Automation Gateway Computer with 1 x GbE, 2 x mPCIe, 1 x HDMI

Features

- Intel® Celeron J1900 Processors 2 GHz with 2GB DDR3L Memory
- 1 x GbE, 3 x USB 2.0/3.0, 1 x RS-232, 1 x VGA or HDMI, Audio
- Comprehensive Palm, Small, Regular-size form-factor
- Compact with Fanless Design
- Rubber Stopper Design with Captive Screw
- Diverse system I/O and Isolated Digital I/O by iDoor Technology
- Serial & LAN ports expansion by iDoor Technology
- 3G/GPS/GPRS/Wi-Fi Communication by iDoor Technology
- Supported Protocols: Modbus, Ethernet IP, DLMS, IEC101, 103, 104, IEC61850. Selection as per customer requirement.
- Chassis Grounding Protection

Introduction

TECH-2272G Embedded Automation Gateway Computer is Fanless with highly ruggedized with an embedded operating system. It also includes iDoor technology which supports automation feature extensions such as industry fieldbus communication, Wi-Fi/3G, Digital I/O, including Palm, Small, and Regular-size Form-Factors with indicated market segments in terms of entry, value and performance product positioning. Both entry and value Embedded Automation Computers feature specific functions and they are suitable for data gateway, concentrator and data server applications. The performance model can shorten your development time and offer multiple networking interfaces to fulfill a diverse range of requirements.

Specifications

General

- **Certification**: CE, FCC, UL, CCC, BSMI
- **Dimensions (W x D x H)**: 157 x 88 x 50 mm (6.2"x 3.5"x 2.0")
- **Form Factor**: Palm Size
- **Enclosure**: Aluminum Housing
- **Mounting**: Stand, Wall, VESA (Optional), DIN-Rail (Optional)
- **Weight (Net)**: 0.8 kg (1.76 lbs)
- **Power Requirement**: 24VDC ± 20%
- **Power Consumption**: 12W (Typical), 20W (Max)
- **OS Support**: Microsoft® Windows 7, WES7, Advantech Linux

System Hardware

- **BIOS**: AMI EFI64 Mbit
- **Watchdog Timer**: Programmable 256 levels timer interval, from 1 to 255 sec
- **Processor**: Intel Celeron Quad Core J1900 2 GHz
- **Memory**: Built-in 2GB DDR3L 1333 MHz
- **Graphics Engine**: Intel® HD Graphics
- **Ethernet**: Intel i210 GbE, 802.10av, IEEE1588/802.1AS, 803.3az
- **LED Indicators**: LEDs for Power, HDD, LAN (Active,Status)
- **Storage**: 1 x half-size mSATA
- **Expansion**: Supports HDD/SSD by project
  2 x Full-size mPCIe slot, mPCIe Rev. 2.0
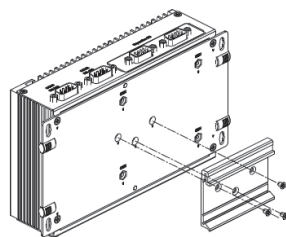
I/O Interfaces

- **Serial Ports**: 1 x RS-232 (RS-422/485 by BIOS option), DB9, 50~115.2kbps
- **LAN Ports**: 1 x RJ45, 10/100/1000 Mbps IEEE 802.3u 1000Base-T Fast Ethernet
- **USB Ports**: 2 x USB 2.0 and 1 x USB 3.0
- **Displays**: 1 x HDMI, supports 1920 x 1080 @ 60Hz
- **Audio**: Line-Out
- **Power Connector**: 1 x 2 Pins, Terminal Block
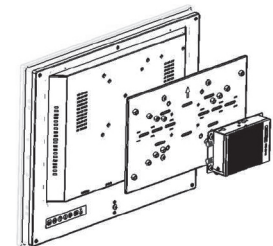- **Grounding Protection**: Chassis Grounding

Environment

- **Operating Temperature**: -10 ~ 55°C (14~131) @ 5 ~ 85% RH with 0.7 m/s airflow
- **Storage Temperature**: - 40 ~ 85°C (-40 ~ 185°F)
- **Relative Humidity**: 10 ~ 95% RH @ 40°C, non-condensing
- **Shock Protection**: Operating, IEC 60068-2-27, 50G, half sine, 11 ms
- **Vibration Protection**: Operating, IEC 60068-2-64, 2 Grms, random, 5 ~ 500 Hz, 1hr/axis (mSATA)
- **Ingress Protection**: IP40

Installation Scenario

DIN-Rail Mount Illustration

VESA Mount Illustration

Ordering Information

- **TECH-2272G**   Automation Gateway with Intel Celeron J1900 2 GHz, 2GB, 1 x LAN

Protocols Supported: ModBus RTU/TCP, Ethernet IP, DLMS, IEC 60870-5-101/103/104, IEC-61850, Profibus