

GX7950



MINI-COMPUTER / PXIE THUNDERBOLT CONTROLLER SERIES

- Integrated mini-PC / PXIe Thunderbolt-based Chassis
- Intel® mini-PC featuring 11th and 13th Generation Core Processors
- Single-slot PXIe Thunderbolt 3 Interface
- 16 GB DDR4-3200 RAM
- 1 TB Gen 4 Solid State Drive (NVMe SSD)
- Windows 11 Pro, 64-bit Operating System
- Support for GX72xx 21-Slot Chassis
- Support for TS-960e / TS-900e-5G / TS-960e-5G Semiconductor Test Solutions



FEATURES

The GX7950 Controller Series features a powerful Intel® mini-PC combined with a Thunderbolt 3 remote control interface to deliver unmatched flexibility and performance for PXIe-based functional test, data acquisition and process control applications.

The Thunderbolt remote control interface is integrated into the chassis and internally routed to the mini-PC controller, eliminating the need for any additional cabling or connections.

User access to the mini-PC and all peripheral connections is located on the rear panel of the chassis in the mini-PC drawer, simplifying installation and setup. Additionally, the mini-PC drawer provides easily access to the computer and interface cables for maintenance or upgrades activities.

The GX7950 Series is available as an integrated controller for the GX72xx Chassis Series and the TS-900/TS-960e/TS-900e-5G/TS-960e-5G Semiconductor Production Test solutions.

CONFIGURATION

The GX7950 controller supports multiple peripherals and I/O interfaces through the chassis' rear I/O panel, and the controller adheres to the PXI Express and cPCI Express specifications and is PICMG EXP.0 R1.0 compliant.

The mini-PC is available with an 11 or 13 generation processor:

- 11th Gen Intel® Core™ i7-1165G7 Processor (4 cores, 8 threads 12M, cache, up to 4.70 GHz)
- 13th Gen Intel® Core™ i7-1360P processor features 12 cores (4P+8E), 16 threads, 18MB cache, up to 5.0 GHz

Numerous expansion and peripherals are supported:

- DDR4 Memory (16 GB default, user expandable)
- M.2 SSD Storage (1 TB default, user expandable)
- 2 x HDMI (2.0b/2.1)
- Ethernet (2.5G)
- USB-4/Thunderbolt, 2 x USB 3.2, 1 x USB 2.0
- Wireless communication includes Wi-Fi 6/6E and Bluetooth



OPERATING SYSTEM

The standard configuration for the GX7950 Series controller includes Microsoft Windows 11 Pro x64 operating system.

APPLICATIONS

- Automatic Test Equipment (ATE)
- Data Acquisition
- Process Control
- Production Test
- Scientific Applications
- Research and Development
- Industrial Systems
- Portable Systems

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SPECIFICATIONS

COMPUTER SPECIFICATION	
CPU	11th Gen Intel® Core™ i7-1165G7 Processor (4 cores, 8 threads 12M, cache, up to 4.70 GHz (GX7951) Optional: 13th Gen Intel Core i7-1360P processor features 12 cores (4P+8E), 16 threads, 18MB cache, up to 5.0 GHz (GX7953)
Main Memory	16 GB DDR4-3200 (user upgradable to 64 GB)
Storage	1 TB NVMe SSD Gen4 PCIe, M.2 2280, up to 5150MB/s (user upgradable)
USB Interfaces (Rear Panel)	1 x USB 4/Thunderbolt 3 (Thunderbolt 4*) USB-C type port 2 x USB 3.2 USB-A type ports 1 x USB 2.0 USB-A type port
Ethernet Interface	1 x 10/100/1000/2500 MB/s Gigabit Ethernet port
Wireless	Intel® Wi-Fi 6 (Gig) or Wi-Fi 6 (Gig+*) Bluetooth version 5.2 or version 5.3*
Graphics	2 x HDMI 2.0b w/HDMI CEC or 2x HDMI 2.1 TMDS Compatible* Integrated with CPU, resolution: 4096 x 2304 @ 60Hz
Operating System	Windows 11 Pro x64
Compliance	ECCN 5A992C CCATS G157815L2 US HTS 8471500150
PXIE MXI-E-THUNDERBOLT INTERFACE	
Specifications	See MXI-E-Thunderbolt Specification

* Specification for 13th Generation Core

Note: Specifications are subject to change without notice

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ORDERING INFORMATION

GX7951	11 Gen i7-1165G7 mini-PC w/PXIe MXI-E- Thunderbolt Interface (included with GX7201, GX7206 Chassis)
GX7953	13 Gen i7-1360P mini-PC w/PXIe MXI-E- Thunderbolt Embedded Controller (option for GX7201, GX7206 Chassis)

Note: The GX7950 is supplied by a 3rd party and resold by Marvin Test Solutions.