SBC-ZETA-3950

Mini Rugged Single Board Computer
with Intel Atom® E3950 Processor

Standard model SBC-ZETA-3950

Features

Industrial-rated Embedded Computer

- Mini form factor for space constrained applications
- Intel Atom® Apollo Lake E3950 processor
- -40°C to + 85°C extended temperature range
- Extended product life cycle
- High MTBF
- Ruggedized soldered down memory
- Mini PCIe expansion

COM Express®

COM Top View

Carrier Top View

Product Description

WINSYSTEMS' SBC-ZETA-3950 rugged single board computer meets the needs of industrial applications where reliability and space are critical. This embedded computer supports a wide range of uses such as industrial automation, energy management, transportation management, security applications, and Mil/COTS. The small size and high feature density also make it an ideal choice for mobile uses such as vehicle applications.

The SBC-ZETA-3950 features a layered architecture for high functional density, delivering a full embedded computer in the ultra-compact COM Express® Mini Type 10 form factor (84 x 55mm/ 3.3 x 2.2 in) for both the rugged carrier and Intel Atom® Apollo Lake E3950 quad-core COM.

This powerful SBC operates in an extended temperature range of -40° to +85°C and supports Windows 10, Ubuntu Linux, and other x86 real-time operating systems.

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Technical Specifications

PART NUMBER	SBC-ZETA-3950
PROCESSOR	Intel Atom® Apollo Lake E3950 Processor Cores: 4 Speed: 1.6 (2.0) GHz Cache: 2 MB L2 Base Power: 12W
OPERATING SYSTEM	Ubuntu Linux, Windows 10 IoT, other x86 real-time OS
SOFTWARE	Custom configurable UEFI based AMI BIOS
SECURITY	On-board discrete TPM 2.0 hardware security
RAM	8GB soldered down LPDDR4, 2400 MT/s
STORAGE	128GB soldered down eMMC 1x mSATA / Mini PCIe socket
DISPLAY	• Dual Display, HD • 1x VGA (DDI to VGA via CH7517 conversion) • LVDS interface (single ch 24-bit)
AUDIO	HD Audio (requires expansion daughter board)
NETWORK	2x 1Gb Ethernet, Intel i210
EXPANSION	• 1x Mini PCIe / mSATA socket, support for full length cards (PCIe and USB) • 1x Micro SD socket
I/O	• 16x GPIO • 5x USB 2.0 (1 used for Mini PCIe) • 1x USB 3.0 • 1x mini PCIe • 4x RS-232/422/485 • Watchdog Timer 1 sec.-255 min.
POWER	• Input: Variable of +6V to +36V • Typical Power Use: 8 W* * See product manual for PassMark® details.
THERMAL SOLUTION	Heatsink
MECHANICAL	• Dimensions: 55mm x 84mm x 47mm (2.16" x 3.3" x 1.84") • Weight: 161 g / 5.7 oz
ENVIRONMENTAL	• Industrial Temperature: -40°C to +85°C (-40ºF to +185°F) • Humidity: 5% to 95% non-condensing • RoHS Compliant

Order Information

PART NUMBER	SBC-ZETA-3950-8G128D
ACCESSORIES	CBL-SET-ZETA-1 - Cable set for SBC-ZETA-3950 includes: 2x Dual USB 2.0 cable Digital I/O cable 2x Dual Serial cable VGA cable External battery cable Dual USB 3.0 cable 2x Ethernet cable Power input cable

Expansion and Configuration Options

Contact Sales for product and configuration options.