



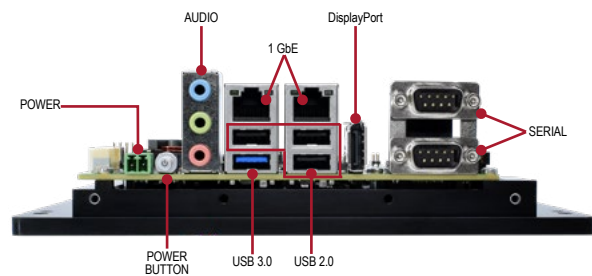
SBC35-405-TCA7 Industrial SBC

Features

- Powerful yet power-efficient industrial performance with an Intel Atom® x6425RE Quad-Core Processor
- Small footprint with a COM and carrier composition, allowing for scalable CPU solutions over long project lifetimes
- Fanless operation from -40°C to +85°C with a low-profile thermal plate base
- Wide range power input of 10 to 50 VDC
- High resolution 4K UltraHD video
- Discrete TPM 2.0 security
- Bootable CFAST, mSATA, and SATA options
- Flexible OS support for Windows, Linux & other real-time OS



Top View



Side View

Product Description

WINSYSTEMS' rugged industrial SBC35-405-TCA7 single board computer (SBC) provides long-life embedded computing reliability. Its low-power, quad-core 1.9 GHz Intel Atom® x6425RE processor hits a sweet spot for speed, power and size for applications in embedded, industrial IoT, and communications markets.

Designed for flexibility to meet the needs of your requirements, the SBC35-405-TCA7 features up to 32 GB DDR4 3200MHz RAM, two Gigabit Ethernet ports, four USB ports, and two serial ports. Storage options include CFAST, mSATA, and SATA. User interface is supported with 4K UltraHD video output via DisplayPort and HD Audio. There are two full-size Mini PCIe sockets for optional expansion. The SBC is built to perform in harsh industrial environments and operates from -40°C to +85°C.

With support for Windows 11, Linux, and other x86-compatible real-time operating systems, developers can build and deploy in their preferred environment. It uses an AMI BIOS.

SBC35-405-TCA7

Technical Specifications

PROCESSOR	Intel Atom® x6425RE Cores: 4 Speed: 1.9 GHz Cache 1.5 MB TDP: 12W
OPERATING SYSTEM	Windows 11 IoT, Linux, other x86 real-time OS
SOFTWARE	Custom configurable UEFI based AMI BIOS Bootable CFAST, mSATA, and SATA
SECURITY	On-board discrete TPM 2.0 hardware
RAM	16 GB or 32 GB DDR4, 3200 MT/s. Supports In-Band ECC
STORAGE	Optional CFAST, mSATA, SATA
DISPLAY	DisplayPort connector 4K UltraHD
AUDIO	Analog HD 7.1 Channel Audio (optional custom cable) Audio Line in, Line out and Mic in Intel Display Audio to DisplayPort interface
NETWORK	2x 1 GbE via RJ-45 connector
EXPANSION	2x Full-size Mini PCIe sockets
I/O	1x USB 3.0 connector 3x USB 2.0 connectors 2x Serial Ports via DB-9 connectors; each RS-232, RS-422, or RS-485 Watchdog Timer 1-255
POWER	Wide Power Input: +10V to +50 VDC Power Mode: AT, ATX
THERMAL SOLUTIONS	Passive thermal plate built-in base
MECHANICAL	Dimensions WxLxH: 127 x 203.2 x 56.5 mm (5" x 8" x 2.25") Weight: 635 grams (1.4 lbs) Power Button Surface mount ready
ENVIRONMENTAL	Operational Temperature: -40°C to +85°C (-40°F to +185°F) Humidity: 10% to 95% non-condensing RoHS Compliant

Order Information

SBC PART NUMBER	SBC35-405-TCA7-16-1 with 16GB RAM SBC35-405-TCA7-32-1 with 32GB RAM
ACCESSORIES	Ask Sales for specific part numbers for storage, cables, and other accessories.

Expansion and Configuration Options

WINSYSTEMS provides additional cables, expansion cards, solid state drives, operating system licenses, customized BIOS, and more to complete your embedded computing solution. Contact us for guidance on product selection and configuration options.



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