



Features

Performance for Industrial IoT Applications

- Intel Atom® x6425RE Quad-Core 1.9 GHz Processor
- 16GB or 32GB DDR4 3200MHz RAM
- 4K UltraHD Video
- Wide Range Power Input (10-50 VDC)
- Fanless Industrial Operating Temperature Range -40°C to +85°C
- TPM 2.0 Hardware Security Supported
- Bootable CFast and mSATA

 Windows 10 IoT

 Windows 11 IoT

Specifications

System	
Processor	Intel Atom x6425RE Quad-Core 1.9 GHz Processor 1.5 MB cache, 12W
Ethernet	2x Gigabit Ethernet ports (Front Panel I/O)
RAM	32GB DDR4 3200MHz RAM
Software	Custom configurable UEFI-based AMI BIOS
Watchdog Timer	Adjustable from 1 second to 255-minute reset
TPM	Hardware Security - Trusted Platform Module (TPM) 2.0 Enabled
Display	
Video Output	1x DisplayPort
Resolution	4K UltraHD
Option	Dual Display with added HDMI port at 1028p resolution
Storage	
CFast	Options up to 1TB (Certification-Ready)
mSATA	Up to 2TB
Expansion	
Mini PCIe	2x Full-size Mini PCIe (1 used for optional dual display)
I/O	
USB	1x USB 3.0 (Front Panel I/O) 3x USB 2.0 (Front Panel I/O)
Serial	2x RS-232/422/485 Serial ports
Audio	Line-In, Line-Out, Mic-In

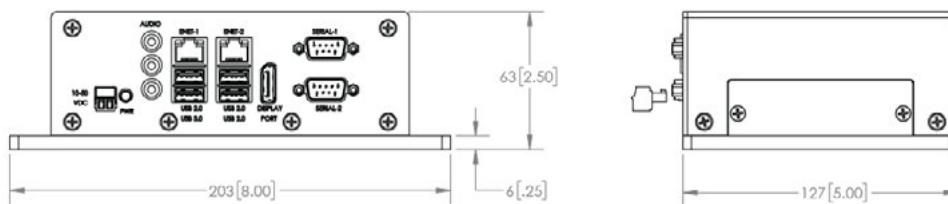
Operating System	
OS Support	Linux Ubuntu, Windows 10/11 IoT, other x86 real-time OS
Power	
Power Mode	AT, ATX
Power Supply Voltage	Wide Range 10-50 VDC
Power Connector	Phoenix Contact Terminal Block Header
Environment	
Operating Temp	-40°C to +85°C (-40°F to +185°F)
Relative Humidity	10% to 95% (non-condensing)
Certification	RoHS Compliant
Physical	
Dimensions	8.0 in x 5.0 in x 2.5 in (203 mm x 127 mm x 63 mm)
Weight	2.65 lbs (42.4 oz), 1.2 kg
Construction	Aluminum with durable coating
Mounting Options	Measurements on mechanical drawings (next page)
Options	
Customization	Contact WINSYSTEMS for additional options / configurations

Order Information

PART NUMBERS	SYS-405Q-TCA7 - Standard configuration	SYS-405Q-TCA7-H - HDMI dual-display configuration
OPTIONS	CFAST-INO-56G-I - 56GB CFast memory card CFAST-INO-128G-I - 128GB CFast memory card CFAST-INO-256G-I - 256GB CFast memory card CFAST-INO-512G-I - 512GB CFast memory card CFAST-INO-1TB-I - 1TB CFast memory card MSATA options up to 2TB DIN-rail mounting option	



Technical drawing of the front view of the 15.5-inch monitor. The drawing shows a rectangular frame with a central display area. Dimensions are provided in millimeters and inches. Key dimensions include: overall width 203 [8.00], overall height 127 [5.00], bezel width 6.35 [0.250], bezel height 19.05 [0.750], and mounting hole spacing 190.50 [7.500] and 165 [6.50]. Mounting holes are specified as Ø 5.56 [0.219] THRU (4X) and #10-32 THRU (4X). A power connector is shown at the bottom center, labeled "Power Connector (Included)".



WINSYSTEMS offers ancillary components and expansion options to complete your embedded computing solution. Our engineers are available to guide you through product selection and configuration options.

