



Features

Performance for Industrial IoT Edge Computing

- Intel Atom® Apollo Lake-I E3950 Quad-Core Processor
- 8GB ECC DDR3L SODIMM (socketed) Memory
- 64GB LPDDR4 eMMC Storage
- Supports 2x Displays (2x DisplayPort with 4K Resolution)
- 2x Gigabit Ethernet
- Watchdog Timer
- Wide Range Power Input (10 - 50 VDC)
- Fanless Wide Operating Temperature Range -40°C to +85°C
- On-board TPM 2.0 Hardware Security

Applications

- Industrial Control, Transportation, Energy, and Industrial IoT

Specifications

System	
Processor	Intel Atom® Apollo Lake-I E3950 Quad-Core Processor 1.6 GHz (2.0 GHz Burst), 2MB L2 Cache
System Memory	8GB ECC DDR3L SODIMM (socketed)
Watchdog Timer	Adjustable from 1 second to 255-minute reset
TPM	On-board TPM 2.0 Hardware Security
Display	
Video Output	2x DisplayPort (version 1.2)
Resolution	4K (4096 x 2160) at 60 Hz
Storage	
On-Board	64GB LPDDR4 eMMC Storage
Expansion	mSATA 2.5" SSD with up to 250GB storage (internal only)
Expansion	
Mini PCIe	1x Full-size Mini PCIe Socket (with mSATA support)
M.2 E-Key	E key, Type 2230 Form Factor
I/O	
LAN Chipset	2x Gigabit Ethernet ports (front panel I/O)
USB	2x USB 3.1 Gen 1 (front panel I/O) 2x USB 2.0 (Front Panel I/O)
Serial	3x RS-232/422/485 Serial Ports
GPIO	8x Channel Bi-directional 20-Pin General Purpose I/O (GPIO) 1x MIPI-CSI (4-Lane) 1x SPI bus (future expansion) 1x I2C bus (future expansion)

Operating System	
Supports	Linux®, Windows® 10, and other x86-compatible real-time OSs
Power	
Power Mode	AT, ATX
Power Supply Voltage	Wide Range +10 – 50V DC
Power Connector	Phoenix Contact Terminal Block Header
Total Dissipated Power	12 W
Environmental	
Operating Temp	-40°C to +85°C (-40°F to +185°F)
Relative Humidity	10% to 95% (non-condensing)
Certification	C E, RoHS Compliant
Physical	
Dimensions	6.5 in x 4.5 in x 2.5 in (standard configuration) (165.1 mm x 114.3 mm x 63.5 mm)
Weight	38.32 oz (1086.35 g)
Construction	Extruded Aluminum with Heavy-Duty Metal
Mounting Options	Wall / Side / VESA / DIN-Rail
Options	
Config Option 1	Dual Isolated CAN bus 2.0B/J1939/CAN open
Config Option 2	WiFi 6 Connectivity (Dual Diversity Antennas)
Config Option 3	Dual Isolated CAN bus 2.0B/J1939/CAN Open with WiFi 6 Connectivity (Dual Diversity Antennas)
Additional Storage	2.5" Samsung SATA SSD 250GB

SYS-427X

Standard Configuration



Optional Configurations



Option 1: With CAN Bus



Option 2: With WiFi 6



Option 3: With CAN Bus + WiFi 6

Expansion and Configuration Options

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.



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