



Rear View

Description

The ComSys-5301 combines leading edge processing with COM Express based modularity and high capacity solid state storage in a sturdy chassis featuring robust cable-less internal connectivity and a thermally efficient and light weight design. The system is SWaP optimized for fanless and ultra-reliable operational performance in harsh environments encountered in drilling and mining operations, commercial air and ground transport infrastructure; mobile ground, ship board and air defense equipment; homeland security and emergency service applications. I/O expansion enables fast system redefinition.

Features

- 4th Generation Intel® Celeron® 2.4GHz Processor with QM87 Chipset
- Up to 16GB Dual Channel DDR3L at 1600MHz
- 256GB solid state storage - inquire about higher capacities
- Dual 10/100/1000Mbps GbE Ports
- Solid cable-less internal construction
- Passive conduction cooled and fanless thermal design
- Modular solution using standard Type 6 COMExpress modules
- Mighty Mouse I/O connectors for reliable performance in harsh environments
- Extended temperature operation

Benefits

- Ideal for space constrained, rugged, or extended temperature applications
- Easy CPU, storage and I/O upgrade reduces tech refresh costs using industry standard Type 6 COM Express and mini PCIe modules.
- Solid construction for high shock and vibration resistance
- Intelligent mechanical design for reduced volume manufacturing costs
- The support services of Elma's experienced systems integration team

Applications and Related Products

The ComSys-5301 combines high performance compute capability with a rich set of I/O choices in a rugged chassis designed by the leaders in electronic packaging. The systems is intended for use in a wide range of applications such as:

- Drilling and mining operations
- Commercial air and ground transport infrastructure
- Energy distribution
- Mobile ground, ship and air defense equipment
- Homeland security and emergency services
- Commercial availability (EAR99)

- Complete line of small form factor chassis systems for a wide range of applications and environments
- Standards-based I/O cards for connectivity configuration
- Storage solutions to meet most usage requirements across a range of applications.

SFF

ComSys-5301

High Performance Computing and Data Storage

Specifications

Environmental

Temperature:
 -40°C to +71°C operational
 -40°C to +85°C storage
 Operating shock: 40Gs; 11ms
 Random vibration: 10Hz to 2000Hz
 Humidity: Up to 95% RH Non-condensing
 Ingress protection IP67 rated

Physical

Dimensions: 76.2mm H x 162mm W x 162mm D, 3" H x 6.38" W x 6.38" D
 Wall or table mount options
 Estimated weight: 6lbs. (2.7kg)
 Cooling: Passive, no fans.
 Mounting per VITA 75

I/O Connections

Circular Glenair 801 series connectors
 Up to 4x 10/100/1000Mbps GbE Ports
 1x Console Ports, RS-232
 4x USB2.0
 1x VGA
 1x Audio port
 1x HDMI port
 1x mSATA SSD
 Provides +12V external power (max 30W)

Power

28V input voltage (14-36V)
 <150 W max power consumption
 Available Output Current: 5V/5A, 5V/20A, 3.3V/5A, 12V/10A

Order Information

Description	Part Number
ComSys-5301 including: - 16GB Dual Channel DDR3L at 1600MHz - 256GB SATA III MLC extended temp mSATA SSD - 2x 10/100/1000Mbps GbE Ports - Linux OS	COS-53G-01
I/O Cable Kit	ComSys-5301-CBL

China: +86 21 5866 5908
 France: +33 437 06 21 10

Germany: +49 7231 97 34 0
 Israel: +972 3 930 50 25

Singapore: +65 6479 8552
 Switzerland: +41 44 933 41 11

United Kingdom: +44 1234 838 822
 United States: +1 510 656 3400

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