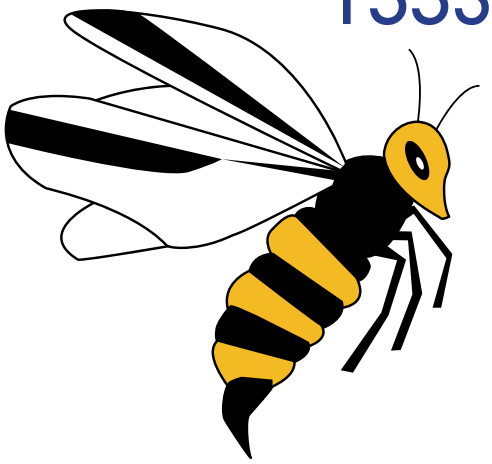
CodaOctopus COLMEK

Stinger™ 1553 Mission Computer

Built on the rugged Stinger™ mission computer series

stinger™ 1553



Built on the rugged Stinger™ mission computer series using the latest Intel® ATOM® processor and solid state storage.

Product Features

- Intel® Atom® Z510/Z530 processor with 512kB of L2 Cache
- Up to 2GB SDRAM soldered on board
- 4GB Solid State Disk on board
- 1X 10/100/1000 Mbit Lan Port
- 4X USB 2.0 Host, 1X USB 2.0 Client
- VGA Port (24-Bit LVDS Optional)
- 1X PCI Express Minicard on board
- SATA 128GB Solid State Disk (Optional 32, 64GB)
- 4X Serial Ports 2X-RS232, 2X-RS232, 422, 485
- Audio (Stereo Line in/out)
- Ultra low power - less than 10W
- Power 9-36VDC Input (28VDC Nominal MIL-STD-704E Compliant)
- Rugged Conduction Cooled, Sealed, and Lightweight Enclosure (IP65, and NEMA 4 Compliant)
- Miniature D38999 Style Connectors
- Environmental (MIL-STD-810F Compliant)
- EMI/EMC (MIL-STD-461E Compliant)
- Temperature -40°C to +85°C
- Support for Windows® XP, Windows® XPe, VxWorks® and Linux®

We welcome your custom requirements and have the following available:

- PCI/104 Board Expansion (Size, Power, and weight may change)
- PCI/104-Express Systems Available
- Multiple Mounting Configurations
- Front and Rear Panel I/O

Interface Features

Interfaces
- MIL-STD-1553
- ARINC 429

- Multiple Configurations with up to:
- 2 Dual-Redundant 1553 Channels
- 16 Receive 429 Channels
- 8 Transmit 429 Channels
- 9 Discrete Digital I/O
- 8 +35V Avionics Discrete I/O
- IRIG-B Input and Output
- E2MA (Extended Enhanced Mini-ACE) BC/RT/MT Architecture
- Fully Backwards API Compatible with Enhanced Mini-ACE BU-69090S Library Software
- 1 MB RAM with Parity per 1553 Channel
- Built-In Self Test
- 48-Bit / 1 µs Time Stamp
- IRIG-106 Chapter 10 Monitor Format
- DMA Engine for Low CPU and PCI Utilization
- VxWorks, Linux & Windows 2000/XP Support

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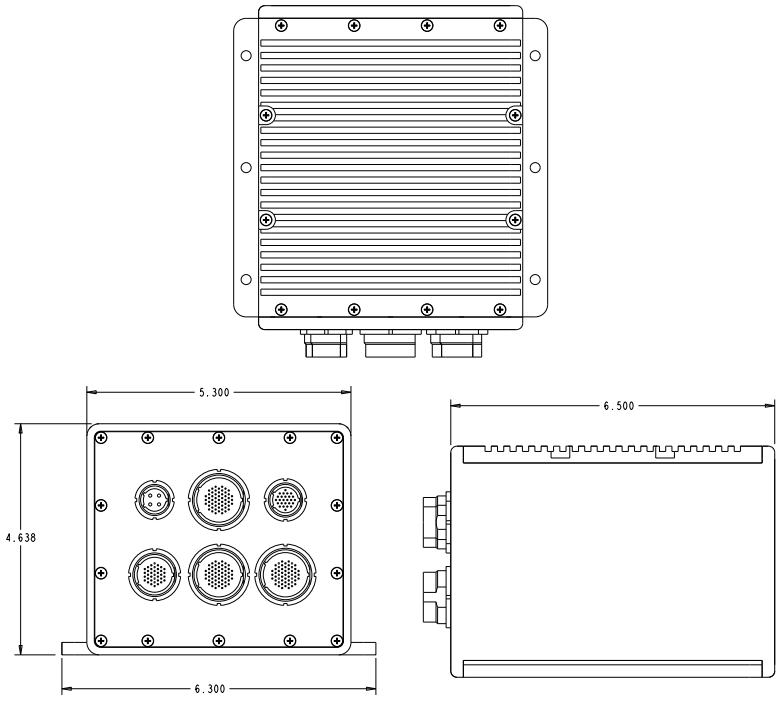
Stinger™ Mission Computer Series

Small Form-Factor Tactical Mission Computer

Colmek takes the "Total Systems Solutions" approach on meeting the real-world requirements. Rather than simply fitting the proper hardware into the right slot, we look at the requirement as it fits into the bigger picture. We then formulate the best total solution with our customer/partner for the long-haul. Not only are we well prepared with the latest-and-greatest technology, packaging, thermal, electrical, and environmental tools, but we look at the bigger picture. How many sources are available now, what is the life-time and upgrade path, burn-in, testing, and certifications? What software/firmware is there, not there - and required. General-purpose solutions are considered, but also 'reconfigurable computing' using FPGA's, etc. As your technology-leading partner, you will know that you are getting the best solution possible.

Colmek Systems Engineering has been providing state-of-the-art solutions for over 30 years. We have earned our reputation for reducing systems cost, weight, complexity while enhancing product life, performance, usability, quality, and reliability. By using our 'real-world requirements - in' approach, we will provide the best total system possible for the best value to our customer. No-where is this more apparent than our Embedded 'Stinger™ product line.



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