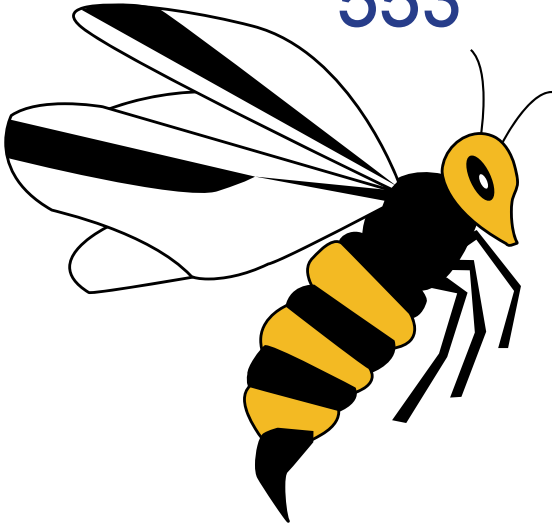


## Stinger™ 553 Mission Computer

Small Form-Factor Tactical Mission Computer

# stinger™ 553



### Product Features

Power:	<ul style="list-style-type: none"> <li>• Vehicle Grade DC/DC Converter</li> <li>• Voltage/Surge Protection</li> <li>• MIL-STD-704E Compliant</li> </ul>
x86 CPU:	Low-Power ATOM CPU Processor boards with 2GB RAM
Connectivity & I/O:	1x 1GE-LAN Interfaces, 8x USB 2.0 port, 4x SATA, DIO, 2x RS-232 Serial Ports, VGA Video, Keyboard, Mouse For functional expansion, PCI Express and USB interfaces are available. If required, the other interfaces can be generated over LPC Super IO (COM1/2, LPR, PS2 and PCI bridge)
Small Form Factor:	• Approx. 5" x 5" x 3"
OS:	Windows, Linux and VxWorks
MIL Grade:	<ul style="list-style-type: none"> <li>• MIL-STD-810F: Altitude, Shock, Vibration, Temperature, Humidity</li> <li>• MIL-STD-461E: Radiated Emissions/Susceptibility &amp; Conducted Susceptibility</li> <li>• MIL-STD-704E: Power Supply Voltage and Suppression</li> </ul>
Mechanical:	<ul style="list-style-type: none"> <li>• Aluminum Chassis with Hardened Finish</li> <li>• IP65 Rated Enclosure with 801 series connectors</li> <li>• No Moving Parts. Passive Thermal Management</li> <li>• Splash Resistant</li> </ul>

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. Nowhere is this more apparent than our Embedded 'Stinger™' product line.

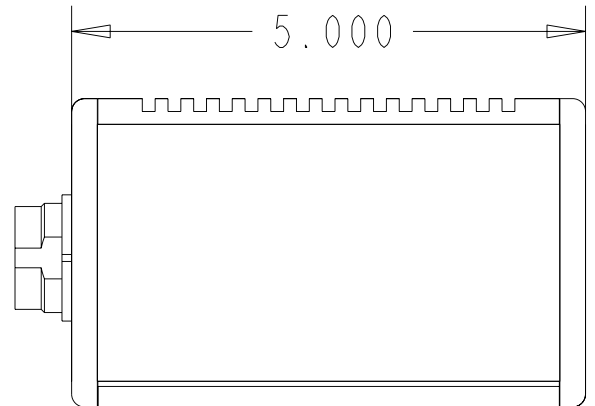
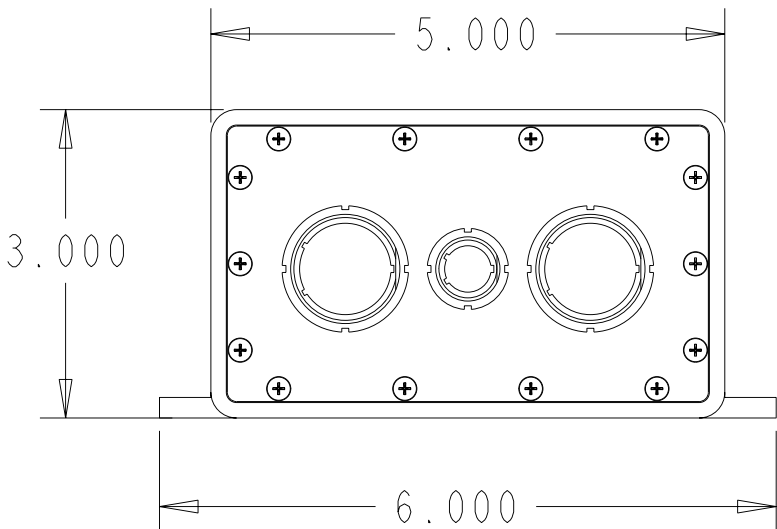
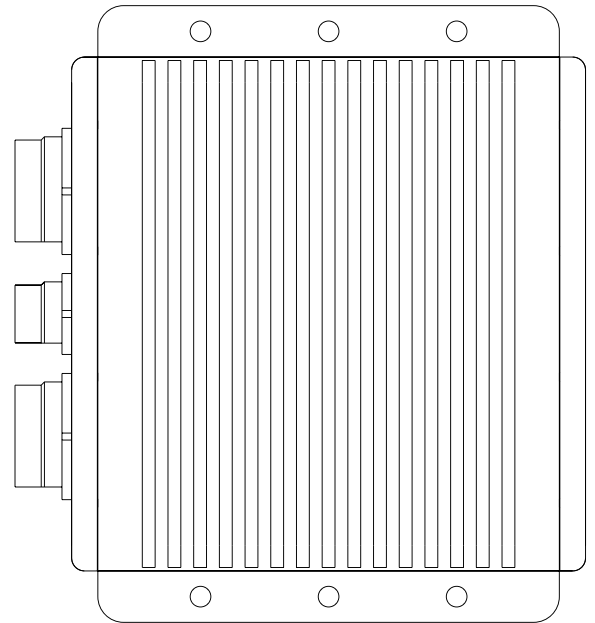
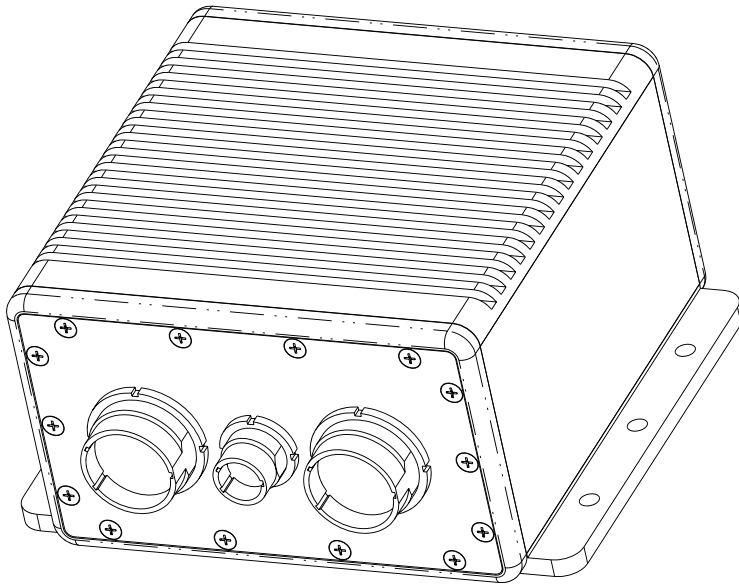
# CodaOctopus COLMEK

## Product Specifications

Solid State Disk:	128 GB
Low-Power x86 CPU:	<ul style="list-style-type: none"> <li>• Intel Atom Processor with the US 15W chipset, has all the standard PC interfaces</li> <li>• 1.4 GHz Clockspeed with Speedstep technology</li> <li>• Equivalent in Performance to 2.8GHz Pentium 4</li> </ul>
Network:	1x PATA or (4x SATA plus 1x GE-LAN) (Expansion via PCI Express bus)
RAM Memory:	2GB DDR2-SODIMM soldered on memory
Operating System:	Systems (Windows XPe, WinCE, Linux, VxWorks)
USB:	8x USB V2.0
GP IO:	4x GPIO (programmable global in/out)
Serial:	7x RS-232 serial ports, configurable 422/232
Video:	1x LVDS 24bit interface 1x SDVO interface
Power:	<ul style="list-style-type: none"> <li>• 9-32 VDC Input (28VDC Nominal)</li> <li>• Reverse, Over Voltage, Surge Protected</li> <li>• MIL-STD-704E Compliance</li> <li>• Typical 2 Watts Power Dissipation (for SPC)</li> <li>• Ground: Grounding Lug For Connection to System Chassis Ground</li> <li>• Battery for Real-Time Clock Maintains Time/Day for 30 Days+</li> </ul>
Physical:	<ul style="list-style-type: none"> <li>• Dimensions (L x W x H): 5" x 5" x 3"</li> <li>- Including Connectors and Baseplate</li> <li>• Chassis: Aluminum Alloy, Corrosion Resistant</li> <li>• Connectors: Glenair Series 801 Mighty Mouse (MIL-38999-like)</li> <li>• Installation: Flange Mount Baseplate</li> <li>• Finish: Anodized per MIL-A-8625, Type II, Class 2</li> </ul>
Humidity:	<p>Designed to Meet MIL-STD-810F:</p> <ul style="list-style-type: none"> <li>• 5% to 95% (Non-Condensing)</li> <li>• All Boards are Conformally Coated</li> </ul>
Temperature:	<p>Designed to Meet MIL-STD-810F:</p> <ul style="list-style-type: none"> <li>• Operating: -40°C to +70°C ambient (-40°F to +158°F)</li> <li>• Storage: -55°C to +85°C (-67°F to +185°F)</li> <li>• No moving parts. Passive conductive cooling.</li> </ul>
Shock/ Vibration:	<p>Designed to meet MIL-STD-810F (Jet &amp; Helicopter Test Profiles)</p> <ul style="list-style-type: none"> <li>• Operating Shock: 15g, 15ms, ½ Sine Wave, 3 Pos/Neg per Axis, Total 18 Pulses</li> <li>• Crash Safety Shock: 40g, 12ms, 2 Pluses per Axis</li> <li>• Random Vibration: 0.022-G<sup>2</sup>/10-Hz to 0.0026-G<sup>2</sup>/2000-Hz</li> </ul>
Altitude:	<p>Designed to Meet MIL-STD-810F:</p> <ul style="list-style-type: none"> <li>• Up to 60,000 feet (18,288 meters)</li> </ul>
EMI/EMC:	<p>Designed to Meet MIL-STD-461E:</p> <ul style="list-style-type: none"> <li>• CS101, Power Leads, 30 Hz to 150 KHz, Curve 2 (28V and below)</li> <li>• RE102, Electric Field, 10 KHz to 18 GHz, Figure RE102-3 for Fixed Wing Shorter than 25m</li> <li>• RS103, Electric Field, 30 MHz to 18 GHz</li> </ul>
Warranty:	1 Year RTF Warranty (Extended Service Contracts Available)
Ingress:	<ul style="list-style-type: none"> <li>• Resistant to Dust, Water, and Moisture</li> <li>• Designed to Comply with IP65 and NEMA 4</li> </ul>

# CodaOctopus COLMEK

## Product Drawings



# CodaOctopus COLMEK

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