

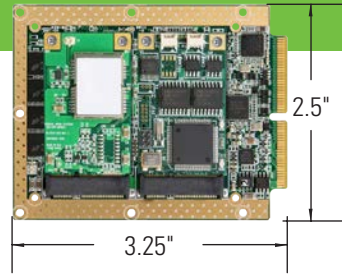


GENERAL MICRO SYSTEMS, INC.

RUGGED COTS SYSTEMS

GREEN SERIES ENGINES

Designed to be the smallest, lowest-power, and lightest weight. These computers utilize ultra-low-power consuming Intel® CPUs and support devices to achieve total system power usage of 15 watts or less. These systems support up to 8GB of RAM, high-speed I/O and limited expansion for custom I/O functions.



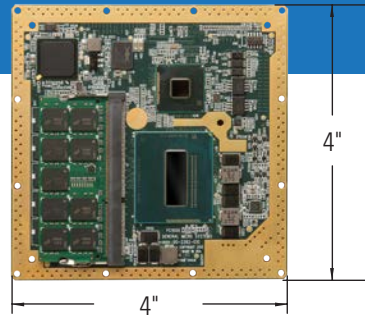
"POSEIDON" PG50X

Rugged, Ultra-Small, Ultra-Low-Power Intel® Atom™ Quad Core SBC

- 1.91 GHz Intel® Atom™ Quad Core Bay Trail processor
- Up to 8GB of 1333MHz DDR3 SDRAM with ECC
- Supports multiple SSDs for high volume data storage
- Multiple USB 2.0/3.0, COM and Gigabit Ethernet ports
- Support for Power over Ethernet (PoE)
- Video support via DVI-D, HDMI and VGA outputs
- SAM™ Sites for custom I/O (MIL-STD-1553, Wi-Fi/BT, GPS, etc.)
- Embedded Intel HD Graphics support
- Standard OS support for Windows® and Linux®
- MIL-STD 810G, 1275, MIL-S-901D and DO-160D compliant
- Operates up to extended temp -40°C to +85°C (Optional)
- Available in ruggedization levels R1-R5

BLUE SERIES ENGINES

Designed to offer the highest performance and versatility per dollar per watt in the industry! These systems support Intel® Core i7 processors with up to 32GB of RAM, vast standard and custom high-speed I/O, and a high degree of modularity with maximum power dissipation of 75 watts or less.



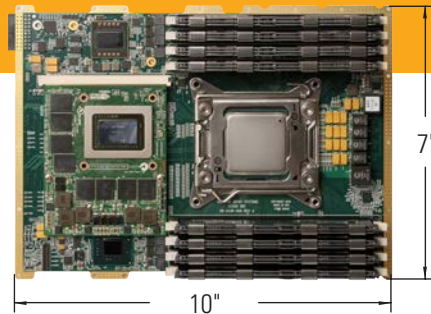
"CHRONOS" PB110X

Ultra-Small, High Performance, Intel® Quad Core™ i7 SBC

- Up to 2.7GHz Intel® Quad Core™ i7 Broadwell-H processor
- Up to 32GB of 1600MHz DDR3L memory with ECC
- Multiple USB 2.0/3.0, COM and Gigabit/10Gigabit Ethernet ports
- Multi-monitor support via Display Port, DVI-D, HDMI and VGA
- SAM™ Sites for custom I/O (MIL-STD-1553, Wi-Fi/BT, GPS, etc.)
- AMD Raedon™ high performance MXM GPUs
- Quad HD-SDI video input at 1080p and 30fps per channel
- 12-port intelligent smart switch/router with L2/L3 functions
- Trusted Platform Module (TPM) for secure operation (Optional)
- MIL-STD 810G, 1275D, 461F, MIL-S-901D, DO-160D compliant
- Operates up to extended temp -40°C to +85°C (Optional)
- Available in ruggedization levels R3-R5

ORANGE SERIES ENGINES

Designed to offer the highest sever class performance and maximum versatility per dollar per watt in the industry! These systems support 10-core Intel® Xeon® processors with up to 256GB RAM, vast standard and custom high-speed I/O and a wide degree of modularity with maximum power dissipation of 175 watts or less.



"ZEUS" PO300X

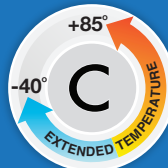
Rugged, High Performance, 10-Core Intel® Xeon® SBC

- 2.4GHz Intel® Xeon® Ivy Bridge-EP CPU with 10-cores
- Hyper-Threading on each core for total of 20 logical cores
- Up to 128GB of DDR3 memory with ECC, up to 1600 MT/s
- Highest performance, embedded GPU module from AMD (Optional)
- Supports Display Port, DVI, HDMI and VGA outputs
- Multiple USB 2.0/3.0, COM and Gigabit/10Gigabit Ethernet ports
- Multiple SAM™ for custom I/O (MIL-STD-1553, Wi-Fi/BT, GPS, etc.)
- Support for up to 18-port intelligent switch with L2/L3 functions
- Trusted Platform Module (TPM) for secure operation (Optional)
- MIL-STD 810G, 1275D, S-901D, 461E, DO-160D, IP66 compliant
- Operates up to extended temp -40°C to +85°C (Optional)
- Available in Ruggedization Levels R3-R5

RUGGED COTS C4ISR SYSTEMS SINCE 1979

(800) 307-4863 | www.gms4sbc.com

All GMS products are proudly designed and manufactured in the U.S.A. and are fully ITAR compliant.
© 2015 General Micro Systems, Inc. All rights reserved.





GENERAL MICRO SYSTEMS, INC.

RUGGED COTS SYSTEMS

ABOUT GMS

Since its inception in 1979, General Micro Systems, Inc. (GMS) has been true to its Mission Statement: "To Become the World's Leading Technology **Independent Supplier** of Computing Engines, while Providing the **Best Price/Performance**, Quality and Customer Support, Demanded by Our Current and Our Future Customers."

In its 36th year in the embedded computing market, GMS is the oldest supplier of embedded computers in the world. GMS designs and manufactures from the ground up rugged Single Board Computers (SBCs), Small Form Factor systems, smart displays, routers and switches and sealed 1U and 2U rack mount servers. In addition, GMS has been registered and certified to internationally recognized ISO 9001:2008 since 1999. With our growing involvement in military and aerospace programs, our quality system exemplifies the highest standard of AS-9100C.

GMS will always strive to provide customers with the solutions they need to stay ahead of their competition - at the lowest possible price without compromising quality or customer service!

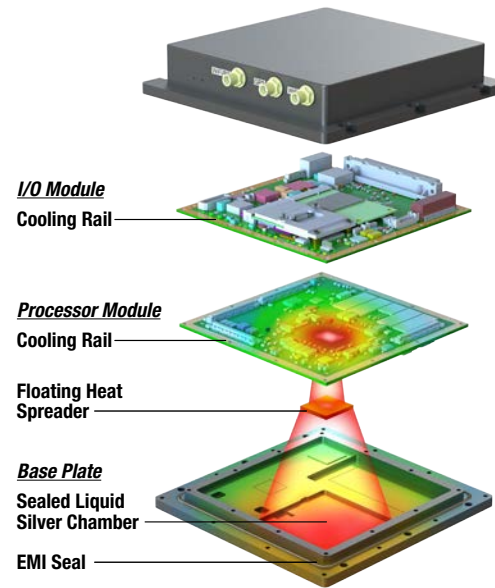
RUGGEDCOOL™ TECHNOLOGY

All General Micro Systems' products are equipped with GMS' patent pending RuggedCool™ technology, which is the only method that allows systems using Intel-based CPUs with a TjMax of 105°C to operate in a -40°C to +85°C environment at full operational load - without throttling the CPU!

Instead of using thermal gap pads to conduct heat from the CPU to the system's interface to the cold plate, like all other rugged computer system manufacturers, GMS uses RuggedCool™, which employs a corrugated alloy slug with an extremely low thermal resistance to act as a heat spreader at the processor die. Once the heat is spread, a liquid silver compound in a sealed chamber is used to transfer the heat from the spreader to the system's enclosure. This approach yields a temperature delta of less than 10°C from the CPU core to the cold plate and increases shock and vibe resistance.



GMS Headquarters
Rancho Cucamonga, CA



"MARLIN" SG502-LP Fully Sealed, Rugged, Ultra-Low-Power System

- Operation up to 100 meters away from base station
- One GigE port with Power over Ethernet (PoE) (Optional)
- One USB 3.0 port and three USB 2.0 ports with power
- One SAM™ site for custom I/O (CANBus, ProfiBus, Wi-Fi/BT, etc.)



"GOLDEN-EYES" SB1102-MD Rugged, Dual Fully Isolated Systems with Removable Drives

- Fully supports Multi-Domain, NSA-secure architecture
- Two fully independent systems (Red/Black) **Each with:**
- Seven GigE ports, six USB 2.0 ports and two Serial ports
- Dual DVI-D / HDMI ports and one RGB video port



"PEACOCK" SB1102-XV Rugged, Extreme Video System with Removable Drive(s)

- Supports AMD Raedon™ GPU (E6760 and E8860)
- High performance embedded Iris™ Pro Graphics 6200
- Support for optional redundant/independent HD-SDI video
- Seven GigE ports, six USB 2.0 ports and two Serial ports



"EAGLE" SB1102-HDVR Rugged, 4-Channel HD-DVR Recorder with Removable Drive(s)

- Records all inputs simultaneously at 1080p/30 Hz with audio
- Simultaneous Record and Monitor/Playback over LAN
- Supports H.264 compression on both channels
- Seven GigE ports, six USB 2.0 ports and two Serial ports



"TARANTULA" S0302-4in1 Rugged, Secure Virtual Machine, 18-Port Switch, RAID, APU

- Up to six independent Virtual Machine I/O (VMIO) sites
- Fully managed L2 / L3 Ethernet switch
- 18 GigE ports and one 10GigE port (fiber optional)
- Auxiliary Power Unit (APU) for orderly shutdown (optional)



"SCORPION" S0302-LP Rugged, High-Performance, Low-Profile Server

- Low-profile fully sealed server 11.75" x 7.75" x 1.75"
- High performance, embedded GPU from AMD (Optional)
- Dual 10-GigE ports with TCP/IP Offloading Engine (TOE)
- Quad USB 3.0 and two USB 2.0 ports with power

For full product listing, please visit gms4sbc.com/products

(800) 307-4863 | www.gms4sbc.com

All GMS products are proudly designed and manufactured in the U.S.A. and are fully ITAR compliant.
© 2015 General Micro Systems, Inc. All rights reserved.

General Micro Systems, Inc.
RUGGED COTS SYSTEMS