



CM Computer 
True Military COTS Products

COTS MILITARY ATR CHASSIS

CM 2015 PRODUCT RANGE SHORT FORM CATALOG



31 MODELS

FULL RANGE OF HIGH PERFORMANCE ENCLOSURES

- › UP TO 31 OFF-THE-SHELF MILITARY ATR CHASSIS MODELS
- › ALL 3U & 6U MODULE FORMATS / VITA BUSES SUPPORTED
- › EXTENSIVE PSU POWER SUPPLY & BACKPLANE COMBINATIONS
- › MIL-STD-461 & MIL-STD-810 CERTIFIED BY INDEPENDENT LABS
- › CHASSIS THERMAL ANALYSIS & TESTING FIGURES AVAILABLE

MILITARY

The Leading military ATR & VME I/O manufacturer in Europe and the USA

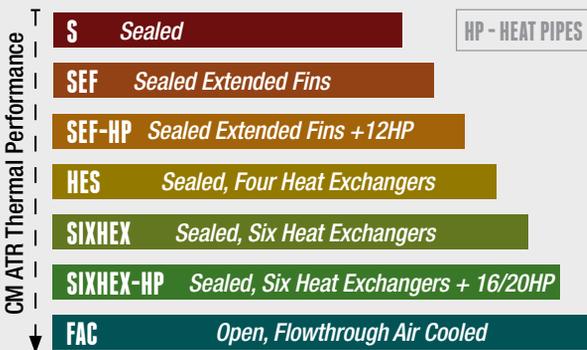
COTS ATR CHASSIS



CM COMPUTER MILITARY TECHNOLOGIES

CM Computer has designed and manufactured high performance military COTS electronic modules since 1988 and ATR Chassis since 1993. The company has provided COTS solutions to over 200 avionics, defense & military programs over the past 25 years.

CM has in-house ISO-9001 certified facilities for design, testing, CNC machining, electronics, chemical coating and painting. We do not subcontract components or assemblies to other companies. CM Computer is committed to long-term product availability.



EXTENSIVE ATR PRODUCT LINE

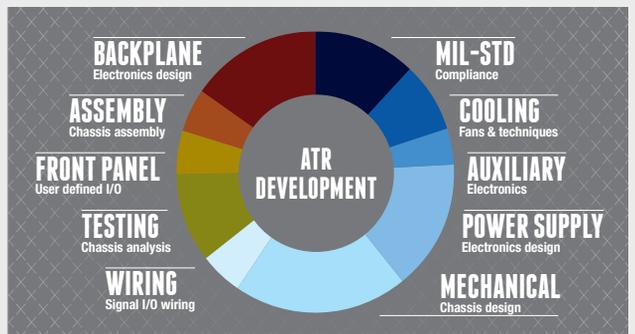
CM chassis line comprises of 31 enclosures that operate under seven different cooling techniques. This wide product range has been developed to guarantee that end application systems meet thermal performance, power dissipation & payload MTBF demands.

CRITICAL MILITARY SYSTEMS

All our products are expressly designed for the most demanding applications that require uncompromising quality and reliability. First rate US military grade components and materials have been selected throughout and sourced only from reputable manufacturers to ensure true MIL-STD compliance.

Custom Chassis Solutions

CM provides customization support for customers who wish to develop systems that are not available from our cataloged line of COTS ATR chassis models. Our senior specialized in-house engineering has a long history of developing non-standard custom military ATR enclosures, allowing us to undertake any modification proposal or tailored solution.



UNCOMPROMISING THERMAL PERFORMANCE

COTS ATR chassis have become the backbone of today's complex military systems. Service-life statistics demonstrate that high performance enclosures mitigate the risk of system failure and significantly increase system longevity.

CM chassis adopt a combination of highly optimized conventional cooling techniques that operate in parallel to achieve superior thermal dissipation rates. Thermodynamic processes include conduction cooling, card-cage direct forced-air cooling, integration of four or six forced-air heat exchangers, up to 20 sealed heat pipes, and natural free air convection.



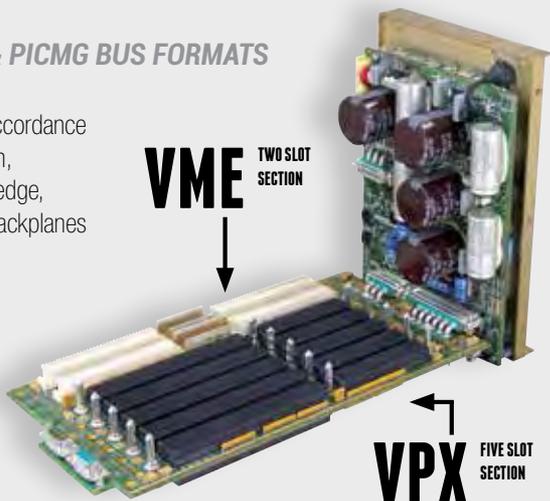


CM MILITARY BACKPLANES

INTEGRATED OFF-THE-SHELF UNDER VITA & PICMG BUS FORMATS

CM designs and develops VPX, VME, cPCI, and Hybrid backplanes in accordance with VITA Technologies specifications. We are committed to open system, real-time critical embedded computing system architectures. Our knowledge, experience, and flexibility enables us to develop custom and dual-bus backplanes based on customer criteria, required topology, and specifications.

CM COTS backplanes are available in 6U and 3U formats, supporting 5, 7, or 12 slots and 0.8", 0.85", and 1" pitch sizes. Printed circuit boards are manufactured to MIL-S-13949, incorporating active semiconductors and passive components rated for -40°C to +85°C operating. All CM chassis incorporate true military monolithic backplanes that are engineered to match enclosure mechanics.



CM Backplane Bus Standards

All CM military ATR chassis integrate backplanes compatible with VITA-VPX, VITA-VME64x, and PICMG-cPCI standard bus formats. Several Dual Redundant or Hybrid dual-bus backplanes are also readily available or can be designed upon specifications to suit any special system requirement.

Our low noise backplanes provide conduction and air-cooled IEEE/IEC bus slots, standard signal connector pin-outs, and daisy-chains, etc. Motherboard assembled connectors are military VITA parts, allowing system integrators to find corresponding mating connectors on the open market.

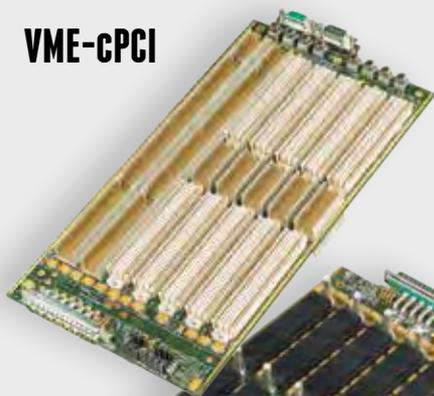
CM backplanes allow flexible top and bottom system integration and unlimited pin I/O wiring (all slot pins are user accessible for I/O). Our chassis provide sufficient bottom cavity clearance to facilitate several I/O wiring techniques, avoiding the requirement for a custom backplane in most applications.



CM Backplane Availability

CM supplies up to 24 COTS military backplane models as standard. This compressive line of backplanes is subject to increase as new emerging applications or customer demands present themselves.

VME-cPCI



6U	VPX		VME	CPCI	DUAL REDUNDANT	HYBRID VME-VPX	HYBRID VME-CPCI
	1"	0.8"	0.8"	0.8"	0.8"	0.8"	0.8"
5 SLOT	•	•	•	•	•	•	•
7 SLOT	•	•	•	•	•	•	•
12 SLOT		•	•	•	•	•	•

VPX



3U	VPX		VME	CPCI
	1"	0.85"	1"	1"
5 SLOT	•		•	•
6 SLOT		•		

BACKPLANE SELECTION GUIDE

The above 6U and 3U tables illustrate CM's standard line of COTS backplane options readily available at the time of publication.





CM ATR MILITARY CERTIFICATES

DELIVERED FULLY QUALIFIED PER MIL-STD-461 & MIL-STD-810

CM enclosures are delivered Tested, Qualified, and Certified per Military Standards to guarantee immediate fault-free operation in the most severe Military/Aerospace environments.

AT4 Wireless Labs, an independent European/American Official Laboratory, conducts our qualification programs in accordance with Military MIL-STD testing procedures and guidelines. Certificates and Testing Reports are delivered to our ATR customers.

MIL-STD tested chassis greatly reduce application risks, mitigate against uncertainty, and provide customers with total confidence in program success. CM chassis materials and electronic parts are fully compliant with manned space flight requirements.

	CE101	CE102	CS101	CS114	CS116	RE101	RE102	RS101	RS103
Surface Ships		A	A	A	A	A	A	A	A
Submarines	A	A	A	A	A	A	A	A	A
Aircraft, Army	A	A	A	A	A	A	A	A	A
Aircraft, Navy	L	A	A	A	A	L	A	L	A
Aircraft, Air Force	A	A	A	A	A	A	A	A	A
Space Systems	A	A	A	A	A	A	A	A	A
Ground, Army	A	A	A	A	A	A	A	L	A
Ground, Navy	A	A	A	A	A	A	A	A	A
Ground, Air Force	A	A	A	A	A	A	A	A	A

CM ATR MIL-STD-461F ELECTROMAGNETIC COMPATIBILITY MATRIX

CE Conducted Emissions RE Radiated Emissions A Applicable & Certified
CS Conducted Susceptibility RS Radiated Susceptibility L Limited & Certified

Certificates per MIL-STD-461

The following testing procedures have been carried out on CM COTS chassis according to severity levels and stringent criteria requirements of the US Navy and Air Force for military transport aircraft (>25m), military fighters (<25m), space systems, helicopters, and submarines.

MIL-STD-461F CONDUCTED EMISSIONS

- CE101 115V (60Hz-10kHz), CE101 28V (30Hz-10kHz), CE102 115V & 28V (10kHz-10MHz). Power Lead ON.

MIL-STD-461F CONDUCTED SUSCEPTIBILITY

- CS101 (30kHz-150kHz), CS114 (10kHz-200MHz), CS116 (10kHz-100MHz). Conducted Immunity.

MIL-STD-461F RADIATED EMISSIONS

- RE101 Radiated H Field ROD Navy Fixed & AF (30Hz-100kHz).
- RE102 Radiated E Field ROD Navy Fixed & AF (10kHz-1GHz).
- RE102 Radiated Field ER BILOG Navy Fixed & AF (30MHz-1GHz), Horizontal & Vertical Polarization.
- RE102 Radiated E Field HORN Navy Fixed & AF (1GHz-18GHz).

MIL-STD-461F RADIATED SUSCEPTIBILITY

- RS101 Radiated H Field (30Hz-150kHz), RS103 Radiated E Field (2MHz-1GHz). Radiated Immunity.



Conducted Susceptibility: Cables and power leads 10kHz to 100MHz.



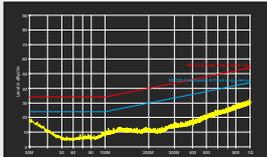
Radiation Emissions: Radiated E field 30MHz to 1GHz vertical polarization.



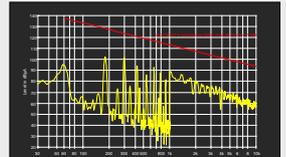
Radiated Emissions: Electric field, HORN, 1GHz up to 18GHz.



Radiated Susceptibility: Radiated H field 30Hz - 150kHz, 2MHz - 100MHz.



RE102. Radiated Electric field - Horizontal, 30 MHz - 1 GHz.



CE101. Conducted Emissions - 30 Hz - 10 kHz.

Certificates per MIL-STD-810

- MIL-STD-810F HIGH TEMPERATURE (M. 501.4)
- MIL-STD-810F LOW TEMPERATURE (M. 502.4)
- MIL-STD-810F HUMIDITY (M. 507.4)
- MIL-STD-810F FUNGUS (M. 508.5)
- MIL-STD-810F SALT FOG (M. 509.4)
- MIL-STD-810F VIBRATION (M. 514.5)
- MIL-STD-810F SHOCK (M. 516.5)
- MIL-STD-1474D FOR ACOUSTIC NOISE

Note regarding the obtained MIL-STD-810 certificates: Chassis tests were performed without shock absorbers during shock and vibration procedures.



Vibration: X-Axis. 12grms @ 15Hz to 20kHz, 1 hour per axis.



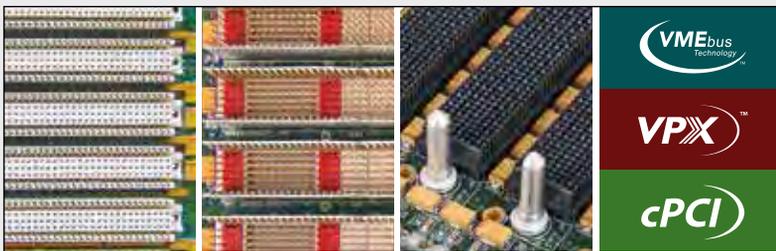
Shock: Z-Axis. Sawtooth pulse 20grms @ 11ms, 18 pulses per axis.



Salt Fog: ATR components subjected to 5% NaCl pH 6.3 solution for 96 hours.



Temperature (operating): 2hrs @ -55°C and 2hrs @ +80°C.



THREE COTS OPEN BUS ARCHITECTURES SUPPORTED

CM chassis fit the most popular open bus standards. Full military VPX, VMEbus, and cPCI backplanes are readily available and supplied with standard VITA/PICMG topology for universal compliance and easy integration with all COTS payload module types.



MAINTENANCE-FREE

CM Sealed enclosures offer lifetime operation. Periodic adjustment or replacement of parts is not required.



AUTO FREQUENCY		90-264 VAC AUTORANGE	
	400Hz	200 VAC 3-PHASE	
	50/60Hz		
	3-Phase	28 VDC 48 VDC 72 VDC 270 VDC	
	ALL DC		

PSUs ACCEPT ALL STANDARD AC/DC INPUT VOLTAGES

CM PSUs accept American & European AC/DC input voltages. Supported AC input voltages; single-phase autorange 90-264VAC @ 47-880Hz or 3-phase 200VAC @ 47-880Hz. Supported DC input voltages; 28VDC, 48VDC, 72VDC, & 270VDC.



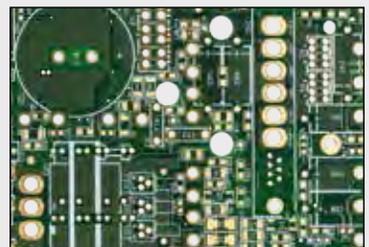
EXTRA HOLD-UP TIME

CM PSUs incorporate oversized hold-up capacitors to maintain backplane DC voltages in the event of power loss.

CONDUCTION COOLED 6U & 3U
AIR COOLED 6U & 3U
MIXED COOLED 6U & 3U (CONDUCTION + FORCED-AIR)

COMPATIBILITY WITH ALL BOARD MECHANICAL FORMATS

6U/3U board integration via a universal 'MCS' (mixed card-cage) that accepts any COTS conduction & air-cooled modules. A 'CCS' (conduction-cooled card-cage) is available for systems using only conduction-cooled boards. 0.8" or 1" slot pitch may be selected.



QUALITY CIRCUIT BOARDS

PCBs are up to 16 layers & conformal coated. Nickel-gold plated for superior conductivity & corrosion-resistance.



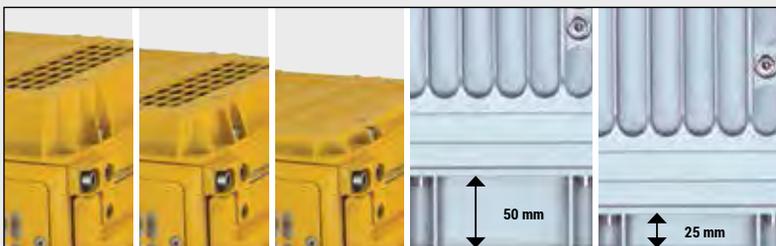
STANDARD OR CUSTOM FRONT PANELS AT NO COST

Customers may select a general purpose CM front panel, incorporating a set of MIL-DTL-38999 connectors or a customized front panel supplied free of charge. Custom panels include customer defined connectors, layout, silk screening, and company logo.



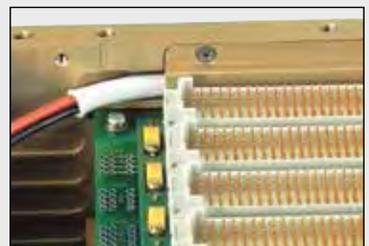
PANEL GROUNDING POINT

A NAS6204 or M5 bonding point is commonly fitted for external GND. Six M3 terminals for Internal grounding.



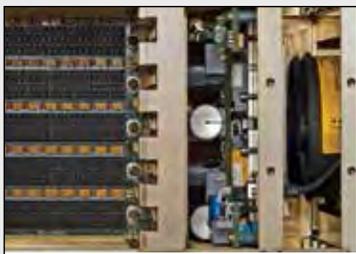
REMOVABLE TOP & BOTTOM COVER OPTIONS

A variety of extended, heat exchanger or finned covers can be selected for extra wiring clearance or superior cooling. Extended covers provide additional space for I/O wiring or custom electronics. All covers are removable for maintenance.



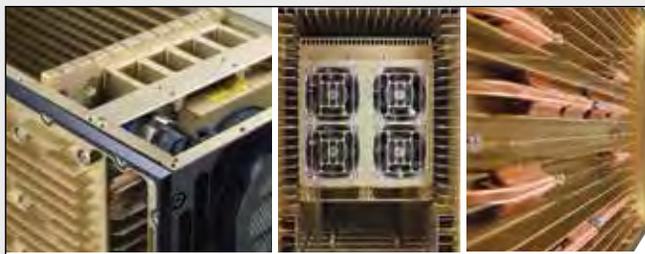
SIDE WIRING CORRIDORS

Chassis side wall corridors ensure PSU & fan cable EMI shielding and may also be used for sensitive I/O signals.



SHIELDED PSU CAVITY

An independent metallic partition for housing the PSU module reduces PSU heat and electrical noise on payload.



OPTIMIZED THERMAL PERFORMANCE

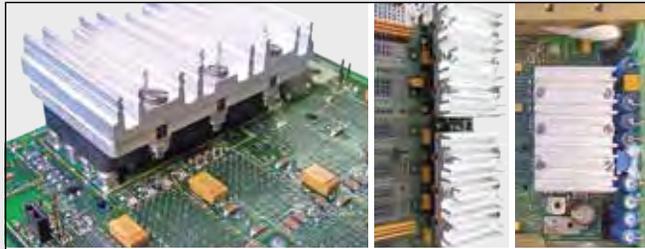
Parts machined from high thermal conductivity aluminum provide greater thermo-active area than traditional chassis. Forced air in card-cage slots, heat exchangers & finned chassis walls improve convection. Integrated heat pipes on HP models further improve performance.

- INCREASED SURFACE AREA
- COMBINED COOLING TECHNIQUES
- HIGH VOLUME AIRFLOW



AIRFLOW SLOT PLATES

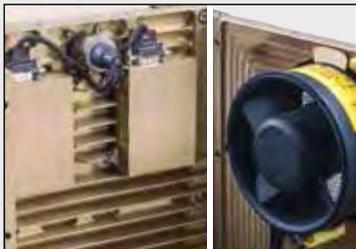
Card-cage airflow may be optimized slot-by-slot using blanking plates to increase airflow over critical cards.



BACKPLANE AUXILIARY USER-DEFINED CONVERTERS

CM backplanes support one or two DC/DC power converter sockets that can be populated with any Vicor micro converter (100W each). Auxiliary DC/DC converters provide any positive, negative, or symmetric user-defined output voltages for special (non-VITA) power requirements.

- USER DC/DC CONVERTERS (100W EACH)
- SINGLE OR DUAL OUTPUT
- ISOLATED OUTPUT POWER



FAN DC/AC CONVERTERS

AC military fans operating inside a 28 VDC PSU chassis integrate an auxiliary DC/AC military converter.



3 STAGE EMI/EMC PSU INPUT FILTERS

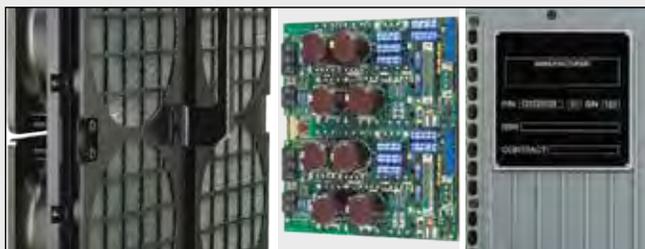
CM chassis incorporate three EMI/EMC filters for MIL-STD-461 compliance. DC PSUs fit VICOR FIAM modules for inrush current limiting, transient protection and EMI filtering. Single-phase AC PSUs fit VICOR FARM modules for autoranging line rectification and EMI filtering.

- IN-LINE AC/DC INPUT FILTER
- VICOR FARM & FIAM FRONT-END FILTERS
- PSU MODULE DISCRETE PARTS LC FILTERS



PSU POWER CONNECTORS

Military power connectors offer reliable shock and vibration interconnectivity between chassis PSU and backplane.



CHASSIS CUSTOMIZATION CAPABILITIES

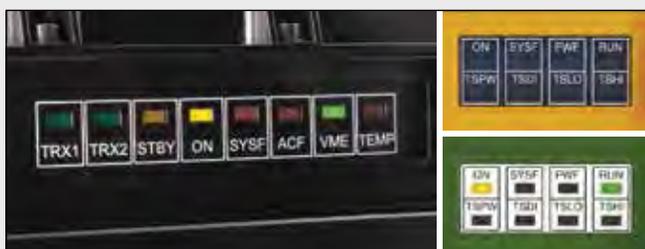
CM designs & manufactures all aspects of our ATR products in-house. We deliver customized parts & integrated solutions to meet client project needs, these may include hybrid backplanes, dual redundant power supplies, special fan assemblies, non-standard chassis dimensions, etc.

- DUAL REDUNDANT SYSTEMS
- CUSTOM & HYBRID BACKPLANES
- CUSTOM METALWORK SOLUTIONS



USER POWER OUTPUTS

Independent output voltage tabs are available to allow access to +3.3VDC, +5VDC, +12VDC, -12VDC, & GND.



CHASSIS FRONT PANEL LED INDICATORS

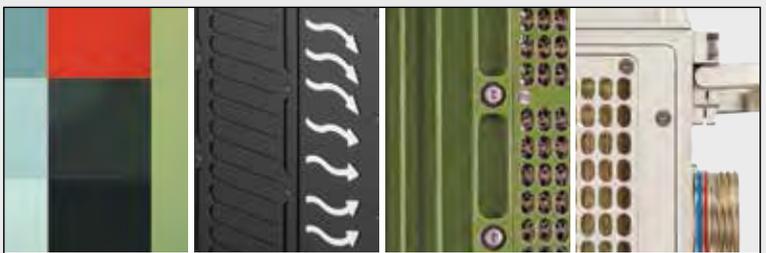
Front panels incorporate up to 8 LED/SMD indicators. They are driven by logic circuitry on the Backplane & TSU. Panel indicators monitor: power on/off/standby status, system board failure, PSU input voltage fail, backplane DC voltages within range, over/under temperature, etc.

- TEMPERATURE STATUS
- DC/AC POWER FAIL STATUS
- SBC & SYSTEM FAIL STATUS



CORROSION PROTECTION

All aluminum surfaces are MIL-DTL-5541F chemical coated (chromate) for excellent corrosion resistance.



MILITARY PAINT OPTIONS

External surfaces are painted with a 3-layer military grade epoxy paint with primer. Traditional military colors are Black (B) & Navy Grey (G). Complementary colors such as Blue, Red, Green, Army Dark Earth, Platinum, White, and Yellow (YW) are available.



I/O WIRING GUIDES

Top & bottom I/O wiring plates are supplied for cable guiding, clamping, organization, and protection.



TOP I/O WIRING

BOTTOM I/O WIRING

DUAL I/O WIRING
(TOP + BOTTOM)

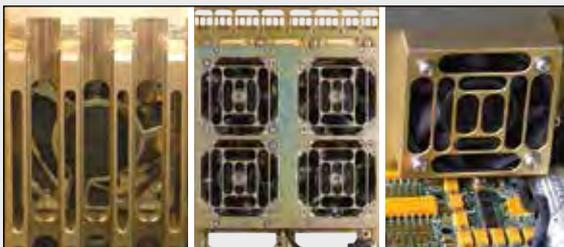
UNLIMITED CHASSIS I/O WIRING OPTIONS

Wiring harnesses, wire wrapping, discrete backplane I/O wiring, routing cables, or flexible I/O interconnection wiring circuits, etc., may be adopted. I/O wiring harnesses may be distributed in functional cable arrays to minimize EMI noise or interference.



MILITARY ROTRON FANS

CM employ rear military Rotron tube-axial fans that are MIL-STD certified, providing up to 140 CFM air-flow.



HIGH CFM
RECIRCULATING
AIRFLOW

HOMOGENEOUS
HOT-SPOT
COOLING

INCREASES PAYLOAD
MTBF

CARD CAGE INTERNAL RECIRCULATION AIRFLOW

CM Sealed chassis install internal fans to recirculate & force air across payload components, convecting heat and dispersing it throughout chassis. Recirculation airflow reduces module hot-spot temperatures & improves payload MTBF.



ATR MOUNTING TRAY

CM Mounting Trays are low profile & weight, fast installation and enclosure insertion with shock absorber support.



OVER/UNDER
TEMPERATURE
PROTECTION

PSU ON/STANDBY
REMOTE CONTROL

FAN & HEATER
CONTROL

SYSTEM TEMPERATURE SUPERVISORY UNIT (TSU)

The TSU protects electronics against extreme climatic conditions, switching all DC outputs ON/OFF when chassis internal temperature is under, or over, user selected trip points. Card-cage heaters & cooling fans are optionally controlled by the TSU.



CARRY HANDLE

A retractable handle is fitted on all front panels. An additional rear handle is fitted on larger CM chassis models.



FRONT
NAS-622 HOOKS

REAR
CENTERING PLATES

BASE PLATE
FIXING SCREWS

CHASSIS FIXING OPTIONS

All chassis are equipped with avionic NAS-622 hooks on the front panel & stainless steel centering plates (pin receptacles) at the rear. Chassis may be mounted to a base plate using a set of M4 stainless steel threads that are factory fitted.



6U SERIES



OVER 25 YEARS AS THE LEADING HIGH PERFORMANCE ATR CHASSIS SUPPLIER



PERFORMANCE

Delivering up to 1550 Watts
Meeting the current demands for high power dissipation advanced military systems.



RELIABILITY

Proven Military Technology
Developing consolidated state-of-the-art chassis solutions that have been field demonstrated to be most efficient.



AVAILABILITY

A Complete Product Range
Reducing your system Time to Market by offering the widest variety of COTS ready ATR solutions.

3U SERIES



**LEARN MORE: WWW.CMCOMPUTER.COM
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MILITARY ATR CHASSIS

OUR COMPLETE LINE OF MIL-STD CERTIFIED 6U & 3U ATR ENCLOSURES ARE AVAILABLE OFF-THE-SHELF TO SUPPORT IMMEDIATE DEPLOYMENT IN NAVY AND AIR FORCE MILITARY FIGHTERS, SUBMARINES, GROUND SYSTEMS, UAVS, AND HELICOPTERS.

5-SLOT ↑100W
7-SLOT ↑130W
12-SLOT ↑180W
PAYLOAD POWER DISSIPATION

5-SLOT ↑80W
PAYLOAD POWER DISSIPATION

5-SLOT ↑120W
7-SLOT ↑160W
12-SLOT ↑220W
PAYLOAD POWER DISSIPATION

5-SLOT ↑200W
7-SLOT ↑300W
12-SLOT ↑400W
PAYLOAD POWER DISSIPATION

5-SLOT ↑250W
PAYLOAD POWER DISSIPATION

5-SLOT ↑450W
7-SLOT ↑500W
12-SLOT ↑600W
PAYLOAD POWER DISSIPATION

5-SLOT ↑500W
7-SLOT ↑600W
12-SLOT ↑700W
PAYLOAD POWER DISSIPATION

S SEALED

6U
0.8" PITCH

3U
1" PITCH

S
NATURAL AIR CONVECTION, LOW COST & WEIGHT, SILENT NO EXTERNAL FANS, INTERNAL FORCED-AIR
CONTAMINANT FREE, NATURAL AIR CONVECTION, LOW COST & WEIGHT, SILENT NO EXTERNAL FANS, INTERNAL FORCED-AIR, SUPPORTS CONDUCTION & AIR-COOLED MODULES

SEF SEALED WITH EXTENDED FINS

SEF
6U
0.8" PITCH

INCREASED NATURAL FREE-AIR CONVECTION, LOW COST & WEIGHT, DRY AIR CONTAMINANT FREE APPLICATIONS, SILENT NO EXTERNAL FANS, INTERNAL FORCED-AIR RECIRCULATION, SUPPORTS CONDUCTION & AIR-COOLED MODULES

SEF-HP SEALED WITH EXTENDED FINS + 12 HEAT PIPES

INCREASED NATURAL FREE-AIR CONVECTION + 12 HEAT PIPES, ALL BOARD FORMATS, SILENT NO EXTERNAL FANS, INTERNAL FORCED-AIR RECIRCULATION, CONTAMINANT FREE

INCREASED AIR CONVECTION + 12 HEAT PIPES, SILENT NO EXTERNAL FANS, INTERNAL FORCED-AIR

0.8" PITCH
6U

1" PITCH
3U

SEF-12HP



5-SLOT ↑180W
7-SLOT ↑220W
12-SLOT ↑280W
PAYLOAD POWER DISSIPATION

5-SLOT ↑140W
PAYLOAD POWER DISSIPATION

1" PITCH
6U

HES
VPX CONDUCTION-COOLED APPLICATIONS, FOUR FORCED-AIR HEAT EXCHANGERS, LOW AIRFLOW RESISTANCE, DRY-AIR CONTAMINANT FREE, HIGH AIRFLOW REAR EXHAUST FANS, IMPROVED INTERNAL FORCED-AIR RECIRCULATION

HES SEALED WITH FOUR HEAT EXCHANGERS

HES
VPX CONDUCTION-COOLED APPLICATIONS, SIX FORCED-AIR HEAT EXCHANGERS, LOW AIRFLOW RESISTANCE, DRY-AIR CONTAMINANT FREE, HIGH AIRFLOW REAR EXHAUST FANS, EXTREME INTERNAL FORCED-AIR RECIRCULATION

1" PITCH
6U

SIXHEX



5-SLOT ↑500W
7-SLOT ↑600W
PAYLOAD POWER DISSIPATION

0.8" PITCH
6U

1" PITCH
3U

HES
CONTAMINANT FREE, WIDE RANGE OF APPLICATIONS
FOUR FORCED-AIR HEAT EXCHANGERS
CONTAMINANT FREE, SUPPORTS CONDUCTION & AIR-COOLED MODULES, FOUR FORCED-AIR HEAT EXCHANGERS, COST EFFECTIVE PERFORMANCE, MEDIUM SIZE AND WEIGHT, INTERNAL FORCED-AIR RECIRCULATION, WIDE RANGE OF APPLICATIONS

SIXHEX SEALED WITH SIX HEAT EXCHANGERS

SIXHEX-20HP
VPX CONDUCTION-COOLED APPLICATIONS, SIX FORCED-AIR HEAT EXCHANGERS + 20 HEAT PIPES, EXTREME LOW AIRFLOW RESISTANCE, EXHAUST AIRFLOW & INTERNAL FORCED-AIR RECIRCULATION, DRY-AIR CONTAMINANT FREE

1" PITCH
6U



5-SLOT ↑600W
7-SLOT ↑700W
PAYLOAD POWER DISSIPATION

5-SLOT ↑400W
7-SLOT ↑450W
12-SLOT ↑700W
PAYLOAD POWER DISSIPATION

0.8" PITCH
6U

SIXHEX
DRY-AIR CONTAMINANT FREE, SUPPORTS CONDUCTION & AIR-COOLED MODULES, SIX FORCED-AIR HEAT EXCHANGERS, LOW AIRFLOW RESISTANCE, HIGH AIRFLOW REAR EXHAUST FANS, IMPROVED INTERNAL AIR RECIRCULATION

0.8" PITCH
6U

SIXHEX-16HP
DRY-AIR CONTAMINANT FREE, SUPPORTS CONDUCTION & AIR-COOLED MODULES, SIX HEAT EXCHANGERS + 16 HEAT PIPES, EXTREME LOW AIRFLOW RESISTANCE, EXHAUST AIRFLOW & INTERNAL FORCED-AIR RECIRCULATION

SIXHEX-HP SEALED WITH SIX HEAT EXCHANGERS + 16 OR 20 HEAT PIPES

FAC OPEN FLOWTHROUGH AIR COOLED

0.8" PITCH
6U



FAC
OPEN, NON-SEALED APPLICATIONS, HIGH COOLING EFFICIENCY, SUPPORTS CONDUCTION & AIR-COOLED MODULES, LOW COST & WEIGHT, LOW AIRFLOW RESISTANCE

1" PITCH
3U



5-SLOT ↑300W
PAYLOAD POWER DISSIPATION

COTS
VME, CPCI & VPX READY

CM Computer
True Military COTS Products

31 MODELS



2015 CM PRODUCT LINE