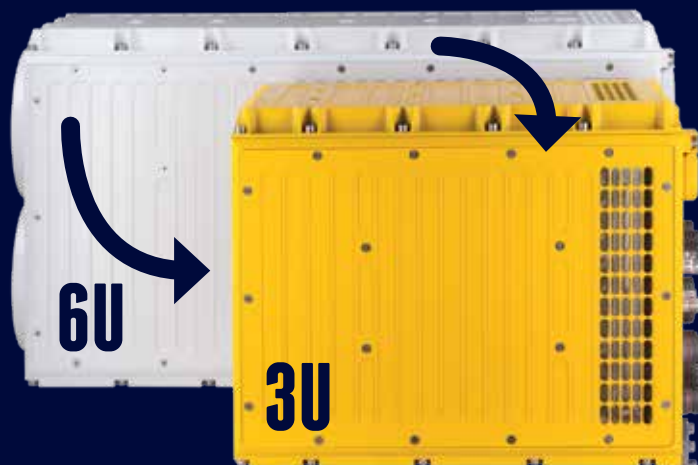




CM ATR ORDERING INFORMATION

CONFIGURING YOUR ATR APPLICATION *"the COTS chassis buyer's guide"*

CM chassis ordering information has been carefully distributed and organized into fields in order to help format part numbers correctly. A complete list of product-specific options and a wide set of off-the-shelf user selectable features have been itemized to avoid confusion when configuring your ATR product.





CM ATR ORDERING INFORMATION



3U Military ATR Chassis Ordering SWaP military aerospace enclosure part number configuration

Please carefully follow our chassis ordering guide for configuring your 3U ATR part number. Note that all CM 3U Backplanes integrate a functional Temperature Supervisory Unit (TSU) that controls Power Supply and Fan operation. Remote optoisolated control switches for 'Battle-short' and chassis PSU 'on/standby' are also fitted as standard.

CHASSIS GENERIC PART NUMBER:

CM-ATR-3U /CT /B /I /W /FP /TC /BC /CS /F /C

MOUNTING TRAY GENERIC PART NUMBER:

CM-TR-3U /CT

/CT Enclosure Cooling Technique

S: Standard Sealed 3U Enclosure
SEF-18HP: Sealed with Extended Fins + 18 Heat Pipes 3U Enclosure
HES: Sealed with Heat Exchangers 3U Enclosure
HES-FBL(3-5-7-9): Sealed with Heat Exchangers 3U Enclosure
FAC: Flowthrough Air Cooled 3U Enclosure (open, non-sealed)

/B Backplane Type

VME64x: Military VME64x Backplane (5 Slot 3U 1" Pitch)
cPCI: Military Compact PCI Backplane (5 Slot 3U 1" Pitch)
cPCI-S: Military Compact PCI Serial R.2.0 Backplane (3-5-7-9 Slot 3U 1" Pitch)
VPX: VITA 46 Military VPX Backplane (3-5-7-9 Slot 3U 1" Pitch)
VPX-6: VITA 46 Military VPX Backplane (6 Slot 3U 0.85" Pitch)

/I PSU Input Power Voltage

28VDC: 28 VDC Input
48VDC: 48 VDC Input
72VDC: 72 VDC Input
270VDC: 270 VDC Input
90-264VAC: Autorange 90-264 VAC @ 47-880 Hz Input
200VAC-3Ph: 200 VAC 3 Phase @ 47-880 Hz Input

/W Power Supply Unit Watts

A-475W: 28 VDC (+5 VDC @ 40A, +3.3 VDC @ 22A, ±12 VDC @ 8A)
A-575W: All PSUs (+5 VDC @ 40A, +3.3 VDC @ 22A, ±12 VDC @ 12A)
A-675W: 28 VDC (+5 VDC @ 80A, +3.3 VDC @ 22A, ±12 VDC @ 8A)*
A-775W: All PSUs (+5 VDC @ 80A, +3.3 VDC @ 22A, ±12 VDC @ 12A)*
B-450W: 28 VDC (+5 VDC @ 20A, +3.3 VDC @ 45A, ±12 VDC @ 8A)
B-550W: All PSUs (+5 VDC @ 20A, +3.3 VDC @ 45A, ±12 VDC @ 12A)
B-564W: 28 VDC (+5 VDC @ 20A, +3.3 VDC @ 80A, ±12 VDC @ 8A)*
B-664W: All PSUs (+5 VDC @ 20A, +3.3 VDC @ 80A, ±12 VDC @ 12A)*
C-475W: 28 VDC (+5 VDC @ 20A, +3.3 VDC @ 22A, +12 VDC @ 16A, -12 VDC @ 8A)
C-575W: All PSUs (+5 VDC @ 20A, +3.3 VDC @ 22A, +12 VDC @ 21A, -12 VDC @ 12A)
C-775W: 28 VDC (+5 VDC @ 20A, +3.3 VDC @ 22A, +12 VDC @ 41A, -12 VDC @ 8A)*
C-825W: All PSUs (+5 VDC @ 20A, +3.3 VDC @ 22A, +12 VDC @ 41A, -12 VDC @ 12A)*
D-550W: 28 VDC (+5 VDC @ 40A, +3.3 VDC @ 45A, ±12 VDC @ 8A)*
D-650W: All PSUs (+5 VDC @ 40A, +3.3 VDC @ 45A, ±12 VDC @ 12A)*
E-550W: 28 VDC (+5 VDC @ 20A, +3.3 VDC @ 45A, +12 VDC @ 16A, -12 VDC @ 8A)*
E-650W: All PSUs (+5 VDC @ 20A, +3.3 VDC @ 45A, +12 VDC @ 21A, -12 VDC @ 12A)*
F-575W: 28 VDC (+5 VDC @ 40A, +3.3 VDC @ 22A, +12 VDC @ 16A, -12 VDC @ 8A)*
F-675W: All PSUs (+5 VDC @ 40A, +3.3 VDC @ 22A, +12 VDC @ 21A, -12 VDC @ 12A)*
All PSUs = All PSUs except 28 VDC input | 28 VDC = 28 VDC input only
*PSU not available for CM-ATR-3U/FAC & CM-ATR-3U/HES-FBL chassis models

/FP Front Panel Layout

CMP: Standard CM front panel fitted with MIL-DTL-38999 connectors
UDP: User-defined front panel layout (requires customer drawing)

/TC Chassis Top Cover

STC: Standard Top Cover. Wiring clearance 13mm
FTC: Standard Top Cover. Wiring clearance 13mm. (Std. on SEF-18HP)
HTC: High profile Top Cover. Wiring clearance 35mm
HETC: Heat Exchanger Top Cover. Wiring clearance 13mm (Std. on HES & HES-FBL)

/BC Chassis Bottom Cover

SBC: Standard Bottom Cover. Wiring clearance below backplane 24mm
HBC: High profile Bottom Cover. Wiring clearance below backplane 49mm

/CS Chassis Card-Cage Slot

MCS: Mixed Card-cage Slots (mixed conduction-cooled & air-cooled boards)
CCS: Conduction-cooled Card-cage Slots (conduction-cooled boards only)
- MCS is not available for CM-ATR-3U/HES-FBL chassis models

/F Rear-Mounted Fan Assembly

STDF-DC: 2x42 CFM DC Rugged fans (HES & HES-FBL) or
1x27 CFM DC Rugged fan (FAC)
STDF-AC: 2x47 CFM 115 VAC @ 400Hz Rugged fans (HES & HES-FBL) or
1x27 CFM DC Rugged fan (FAC)
F115-400: 2x65 CFM 115 VAC @ 400Hz Rotron PX2 Military fans (HES & HES-FBL) or 1x65 CFM Rotron PX2 Military fan (FAC)
F200-400: 2x120 CFM 200 VAC 3PH @ 400Hz Rotron PX2 fans (HES & HES-FBL) or 1x120 CFM Rotron PX2 Military fan (FAC)
- No rear fan required for CM-ATR-3U/S & /SEF-HP, omit option from part number.
- Rugged fans are fitted with aluminum housing. Operating range: -10°C to +70°C
- Full military Rotron PX2 AC fans. Operating range: -54°C to +125°C

/C Chassis Color

B: Black, **G:** Navy Grey, **E:** Army Dark Earth, **W:** White, **R:** Red, **PT:** Platinum, **YW:** Yellow, **GN:** Green, **BLU:** Dark Blue, **CR:** Chromate MIL-C-5541 or **O:** Other

PART NUMBER EXAMPLE:

CM-ATR-3U/SEF-18HP/VPX/28VDC/A-475W/UDP/FTC/SBC/CCS/E

- 5 slot, Sealed with Extended Fins + 18 Heat Pipes 3U Avionics Enclosure.
- 5 slot, 3U VPX 1" Pitch backplane. 28VDC input power supply.
- A-475W power supply (+5 VDC @ 40A, +3.3 VDC @ 22A, ±12 VDC @ 8A).
- User-defined front panel layout (requires drawing).
- Finned Top Cover (13mm). Standard Bottom Cover (backplane 25mm).
- Conduction-cooled Card-cage Slots (conduction-cooled boards only).
- Enclosure color: Army Dark Earth.



CM ATR ORDERING INFORMATION



6U Military ATR Chassis Ordering

high performance military aerospace enclosure part number configuration

CHASSIS GENERIC PART NUMBER:

CM-ATR-S5 /CT /B /I /W /3.3 /D1 /D2 /R /S /FP /TC /BC /CS /F /G /C

/S5 COTS Enclosure Size/Model

CM-ATR-25: 5 Slot 6U Enclosure (0.8" pitch - 1/2 ATR type)
CM-ATR-125: 5 Slot 6U Enclosure (1" pitch - 1/2 ATR type)
CM-ATR-35: 7 Slot 6U Enclosure (0.8" pitch - 3/4 ATR type)
CM-ATR-135: 7 Slot 6U Enclosure (1" pitch - 3/4 ATR type)
CM-ATR-45: 12 Slot 6U Enclosure (0.8" pitch - 1 ATR type)

/CT Enclosure Cooling Technique

S: Standard Sealed (0.8" pitch)
SEF: Sealed with Extended Fins (0.8" pitch)
SEF-HP: Sealed with Extended Fins + 18/20 Heat Pipes (0.8" pitch)
HES: Sealed with 4 Heat Exchangers (0.8" and 1" pitch versions)
SIXHEX: Sealed with 6 Heat Exchangers (0.8" and 1" pitch versions)
SIXHEX-HP: Sealed with 6 Heat Exchangers and integrated Heat Pipes (0.8" pitch with 16HP and 1" pitch with 20HP versions)
FAC: Flowthrough Air Cooled Enclosure (open, non-sealed) (0.8" pitch)

/B Backplane Type (slot pitch according to chassis model)

VME64x: Military VME64x Backplane
cPCI: Military Compact PCI Backplane
VPX: VITA 46 Military VPX Backplane
VME64x/VPX: Hybrid VME64x mixed with VPX Military Backplane
VME64x/cPCI: Hybrid VME64x mixed with cPCI Military Backplane
Note: Hybrid dual bus backplanes are available for a limited set of chassis only

/I PSU Input Power Voltage

28VDC: 28 VDC Input
48VDC: 48 VDC Input
72VDC: 72 VDC Input
270VDC: 270 VDC Input
90-264VAC: Autorange 90-264 VAC @ 47-880 Hz Input
200VAC-3PH: 200 VAC 3 Phase @ 47-880 Hz Input

/W Power Supply Unit Watts

All PSUs = All PSUs except 28 VDC input | 28 VDC = 28 VDC input only

PSUs for CM-ATR-25 (5 slot)

Models: /S or /SEF or /SEF-HP or /HES (0.8") or /FAC

300W: 28 VDC (+5 VDC @ 20A, +3.3 VDC @ 5A, ±12 VDC @ 8A)
400W: All PSUs (+5 VDC @ 20A, +3.3 VDC @ 5A, ±12 VDC @ 12A)

Models: /S or /SEF or /SEF-HP or /HES or /SIXHEX or /SIXHEX-HP

A-475W: 28 VDC (+5 VDC @ 40A, +3.3 VDC @ 22A, ±12 VDC @ 8A)
A-575W: All PSUs (+5 VDC @ 40A, +3.3 VDC @ 22A, ±12 VDC @ 12A)
B-450W: 28 VDC (+5 VDC @ 20A, +3.3 VDC @ 45A, ±12 VDC @ 8A)
B-550W: All PSUs (+5 VDC @ 20A, +3.3 VDC @ 45A, ±12 VDC @ 12A)
C-475W: 28 VDC (+5 VDC @ 20A, +3.3 VDC @ 22A, +12 VDC @ 16A, -12 VDC @ 8A)
C-575W: All PSUs (+5 VDC @ 20A, +3.3 VDC @ 22A, +12 VDC @ 21A, -12 VDC @ 12A)

MOUNTING TRAY GENERIC PART NUMBER:

CM-TR-S5 /CT

PSUs for CM-ATR-(1)35 (7 slot) & CM-ATR-125 (5 Slot 1" Pitch)

Models: /S or /SEF or /SEF-HP or /HES (0.8") or /FAC

400W: 28 VDC (+5 VDC @ 40A, +3.3 VDC @ 5A, ±12 VDC @ 8A)
500W: All PSUs (+5 VDC @ 40A, +3.3 VDC @ 5A, ±12 VDC @ 12A)

Models: /S or /SEF or /SEF-HP or /HES or /SIXHEX or /SIXHEX-HP

A-475W: 28 VDC (+5 VDC @ 40A, +3.3 VDC @ 22A, ±12 VDC @ 8A)
A-575W: All PSUs (+5 VDC @ 40A, +3.3 VDC @ 22A, ±12 VDC @ 12A)
A-675W: 28 VDC (+5 VDC @ 80A, +3.3 VDC @ 22A, ±12 VDC @ 8A)
A-775W: All PSUs (+5 VDC @ 80A, +3.3 VDC @ 22A, ±12 VDC @ 12A)
B-450W: 28 VDC (+5 VDC @ 20A, +3.3 VDC @ 45A, ±12 VDC @ 8A)
B-550W: All PSUs (+5 VDC @ 20A, +3.3 VDC @ 45A, ±12 VDC @ 12A)
B-564W: 28 VDC (+5 VDC @ 20A, +3.3 VDC @ 80A, ±12 VDC @ 8A)
B-664W: All PSUs (+5 VDC @ 20A, +3.3 VDC @ 80A, ±12 VDC @ 12A)
C-475W: 28 VDC (+5 VDC @ 20A, +3.3 VDC @ 22A, +12 VDC @ 16A, -12 VDC @ 8A)
C-575W: All PSUs (+5 VDC @ 20A, +3.3 VDC @ 22A, +12 VDC @ 21A, -12 VDC @ 12A)
C-775W: 28 VDC (+5 VDC @ 20A, +3.3 VDC @ 22A, +12 VDC @ 41A, -12 VDC @ 8A)
C-825W: All PSUs (+5 VDC @ 20A, +3.3 VDC @ 22A, +12 VDC @ 41A, -12 VDC @ 12A)
D-550W: 28 VDC (+5 VDC @ 40A, +3.3 VDC @ 45A, ±12 VDC @ 8A)
D-650W: All PSUs (+5 VDC @ 40A, +3.3 VDC @ 45A, ±12 VDC @ 12A)
E-550W: 28 VDC (+5 VDC @ 20A, +3.3 VDC @ 45A, +12 VDC @ 16A, -12 VDC @ 8A)
E-650W: All PSUs (+5 VDC @ 20A, +3.3 VDC @ 45A, +12 VDC @ 21A, -12 VDC @ 12A)
F-575W: 28 VDC (+5 VDC @ 40A, +3.3 VDC @ 22A, +12 VDC @ 16A, -12 VDC @ 8A)
F-675W: All PSUs (+5 VDC @ 40A, +3.3 VDC @ 22A, +12 VDC @ 21A, -12 VDC @ 12A)

Dual-redundant PSUs for /HES or /SIXHEX or /SIXHEX-HP models

R2x500W: (+5 VDC @ 25A, +3.3 VDC @ 23A, ±12 VDC @ 12A)

PSU for CM-ATR-45 (12 slot)

Models: /S or /SEF or /SEF-HP or /HES (0.8") or /FAC

950W: 28 VDC (+5 VDC @ 80A, +3.3 VDC @ 45A, ±12 VDC @ 16A)
1050W: All PSUs (+5 VDC @ 80A, +3.3 VDC @ 45A, ±12 VDC @ 21A)

Models: /HES or /SIXHEX or /SIXHEX-HP

A-950W: 28 VDC (+5 VDC @ 80A, +3.3 VDC @ 45A, ±12 VDC @ 16A)
A-1050W: All PSUs (+5 VDC @ 80A, +3.3 VDC @ 45A, ±12 VDC @ 21A)
B-950W: 28 VDC (+5 VDC @ 40A, +3.3 VDC @ 45A, +12 VDC @ 33A, -12 VDC @ 16A)
B-1100W: All PSUs (+5 VDC @ 40A, +3.3 VDC @ 45A, +12 VDC @ 41A, -12 VDC @ 20A)
B-1065W: 28 VDC (+5 VDC @ 80A, +3.3 VDC @ 80A, ±12 VDC @ 16A)
B-1165W: All PSUs (+5 VDC @ 80A, +3.3 VDC @ 80A, ±12 VDC @ 21A)
C-864W: 28 VDC (+5 VDC @ 40A, +3.3 VDC @ 80A, ±12 VDC @ 16A)
C-964W: All PSUs (+5 VDC @ 40A, +3.3 VDC @ 80A, ±12 VDC @ 20A)
C-1225W: 28 VDC (+5 VDC @ 80A, +3.3 VDC @ 160A, ±12 VDC @ 16A)
C-1425W: All PSUs (+5 VDC @ 80A, +3.3 VDC @ 160A, ±12 VDC @ 21A)
D-1350W: 28 VDC (+5 VDC @ 160A, +3.3 VDC @ 80A, ±12 VDC @ 16A)
D-1550W: All PSUs (+5 VDC @ 160A, +3.3 VDC @ 80A, ±12 VDC @ 21A)

Dual-redundant PSUs for /HES or /SIXHEX or /SIXHEX-HP models

R2x725W: (+5 VDC @ 20A, +3.3 VDC @ 23A, ±12 VDC @ 12A, ±28 VDC @ 9A)
R2x675W: (+5 VDC @ 60A, +3.3 VDC @ 23A, ±12 VDC @ 12A)
R2x625W: (+5 VDC @ 20A, +3.3 VDC @ 68A, ±12 VDC @ 12A)
R2x710W: (+5 VDC @ 20A, +3.3 VDC @ 23A, +12 VDC @ 32A, -12 VDC @ 12A)



/3.3 DC/DC AUX0 fitted for 3.3VDC (CM-ATR-25 & CM-ATR-35)

3.3-75W: 3.3VDC @ 22A (in lieu of default 3.3 VDC @ 5A)
Optional DC/DC AUX0 converter on Backplane fitted for 3.3VDC. Option suited for 1st generation PSU models 300W/400W/500W. Note: If /3.3-75W is not selected, DC/DC power socket AUX0 remains free to the user.

/D1 DC/DC AUX1 (CM-ATR-35 & CM-ATR-45) /D2 DC/DC AUX2 (CM-ATR-45)

D1: 100W Optional DC/DC Converter on Backplane. User-defined output 1
D2: 100W Optional DC/DC Converter on Backplane. User-defined output 2
Backplane auxiliary DC/DC converter output options: +2VDC 50W, -2VDC 50W, +3.3VDC 75W, -3.3VDC 75W, +5VDC 100W, -5VDC 100W, +12VDC 100W, -12VDC 100W, +15VDC 100W, -15VDC 100W, +28VDC 100W, -28VDC 100W, +48VDC 100W, -48VDC 100W.
Ordering Examples: 48-100W » 48VDC @ 2A / -5-100W » -5VDC @ 20A / 2-50W » 2VDC @ 25A / ±15-100W » ±15VDC @ 6A

/R Redundant PSU (Plug-in for VMEbus systems only)

RPSU for CM-ATR-35 (7 slot) & CM-ATR-45 (12 slot)
RA-475W: 28 VDC (+5 VDC @ 40A, +3.3 VDC @ 22A, ±12 VDC @ 8A)
RB-575W: All PSUs (+5 VDC @ 40A, +3.3 VDC @ 22A, ±12 VDC @ 12A)

/S Temperature Supervisory Unit

TSU: Optionally installed in backplane (for /S or /SEF or /FAC models)
Note: TSU is fitted as standard in /SEF-HP, /HES, /SIXHEX & /SIXHEX-HP models

/FP Front Panel Layout

CMP: Standard CM front panel fitted with MIL-DTL-38999 connectors
UDP: User-defined front panel layout (requires customer drawing)

/TC Chassis Top Cover

STC: Standard top cover (wiring clearance 20mm)
FTC: Finned top cover (wiring clearance 20mm)*
HTC: High profile top cover (wiring clearance 35mm)
HETC: Heat Exchanger top cover (wiring clearance 20mm)**
EHETC: Extended Heat Exchanger top cover (wiring clearance 35mm)
 * *FTC chassis top cover is standard on /SEF & /SEF-HP models*
 ** *HETC chassis top cover is standard on /HES, /SIXHEX & /SIXHEX-HP models*

/BC Chassis Bottom Cover

SBC: Standard bottom cover (wiring clearance below backplane 25mm)
HBC: High profile bottom cover (wiring clearance below backplane 50mm)*
 * *50mm bottom clearance is standard on /HES-1", /SIXHEX & /SIXHEX-HP models*

/CS Chassis Card-Cage Slot

MCS: Mixed Card-cage slots (mixed conduction-cooled & air-cooled boards)
CCS: Conduction-cooled Card-cage slots (conduction-cooled boards only)*
 * *CCS card-cage is standard on /HES-1", /SIXHEX-1" & /SIXHEX-HP-1" models*

/F Rear-Mounted Fan Assembly

Fans for CM-ATR-(1)25 (5 slot) & CM-ATR-(1)35 (7 slot)
Models: /FAC
F115-400: 1x65 CFM 115 VAC @ 400Hz Rotron PX2 Military fan
F200-400: 1x120 CFM 200 VAC 3PH @ 400Hz Rotron PX2 fan
F28: 1x65 CFM 28 VDC Rotron PX2 Military fan (through DC/AC converter)

Models: /HES (0.8")

F115-400: 2x65 CFM 115 VAC @ 400Hz Rotron PX2 Military fans
F200-400: 2x120 CFM 200 VAC 3PH @ 400Hz Rotron PX2 fans
F28: 2x65 CFM 28 VDC Rotron PX2 Military fans (through DC/AC converter)

Models: /HES (1") /SIXHEX or /SIXHEX-HP

F115-400: 2x100 CFM 115 VAC @ 400Hz Rotron PX3 Military fans
F200-400: 2x140 CFM 200 VAC 3PH @ 400Hz Rotron PX3 fans
F28: 2x100 CFM 28 VDC Rotron PX3 Military fans
F115-60: 2x100 CFM 115 VAC @ 60Hz Rugged fans
F220-50: 2x100 CFM 220 VAC @ 50Hz Rugged fans

Fans for CM-ATR-45 (12 slot)

Models: /FAC

F115-400: 2x100 CFM 115 VAC @ 400Hz Rotron PX3 Military fans
F200-400: 2x140 CFM 200 VAC 3PH @ 400Hz Rotron PX3 fans
F28: 2x100 CFM 28 VDC Rotron PX3 Military fans

Models: /HES

F115-400: 4x65 CFM 115 VAC @ 400Hz Rotron PX2 Military fans
F200-400: 4x120 CFM 200 VAC 3PH @ 400Hz Rotron PX2 fans
F28: 4x65 CFM 28 VDC Rotron PX2 Military fans (through DC/AC converter)

Models: /SIXHEX or /SIXHEX-HP

F115-400: 4x100 CFM 115 VAC @ 400Hz Rotron PX3 Military fans
F200-400: 4x140 CFM 200 VAC 3PH @ 400Hz Rotron PX3 fans
F28: 4x100 CFM 28 VDC Rotron PX3 Military fans
F115-60: 4x100 CFM 115 VAC @ 60Hz Rugged fans
F220-50: 4x100 CFM 220 VAC @ 50Hz Rugged fans

VAP: Vehicle Air-Plenum according to system specs (external forced air source)

- *No rear fan required for /S, /SEF & /SEF-HP models, omit option from part number*
- *Rugged fans are fitted with aluminum housing. Operating range: -10°C to +70°C*
- *Full military Rotron PX2 & PX3 AC fans. Operating range: -54°C to +125°C*
- *Note: Fan input voltage can be selected independently of main PSU voltage*

/G Fan Finger Guards

STDG: Standard Rotron PX2/PX3 finger guards
EMIG: Optional EMI shielding finger guards with honeycomb filter
GNF: Optional finger guards with acoustic noise filter (-5dB)

/C Chassis Color

B: Black, **G:** Navy Grey, **E:** Army Dark Earth, **W:** White, **R:** Red, **PT:** Platinum, **YW:** Yellow, **GN:** Green, **BLU:** Dark Blue, **CR:** Chromate, **O:** Other (user-defined)

PART NUMBER EXAMPLE:

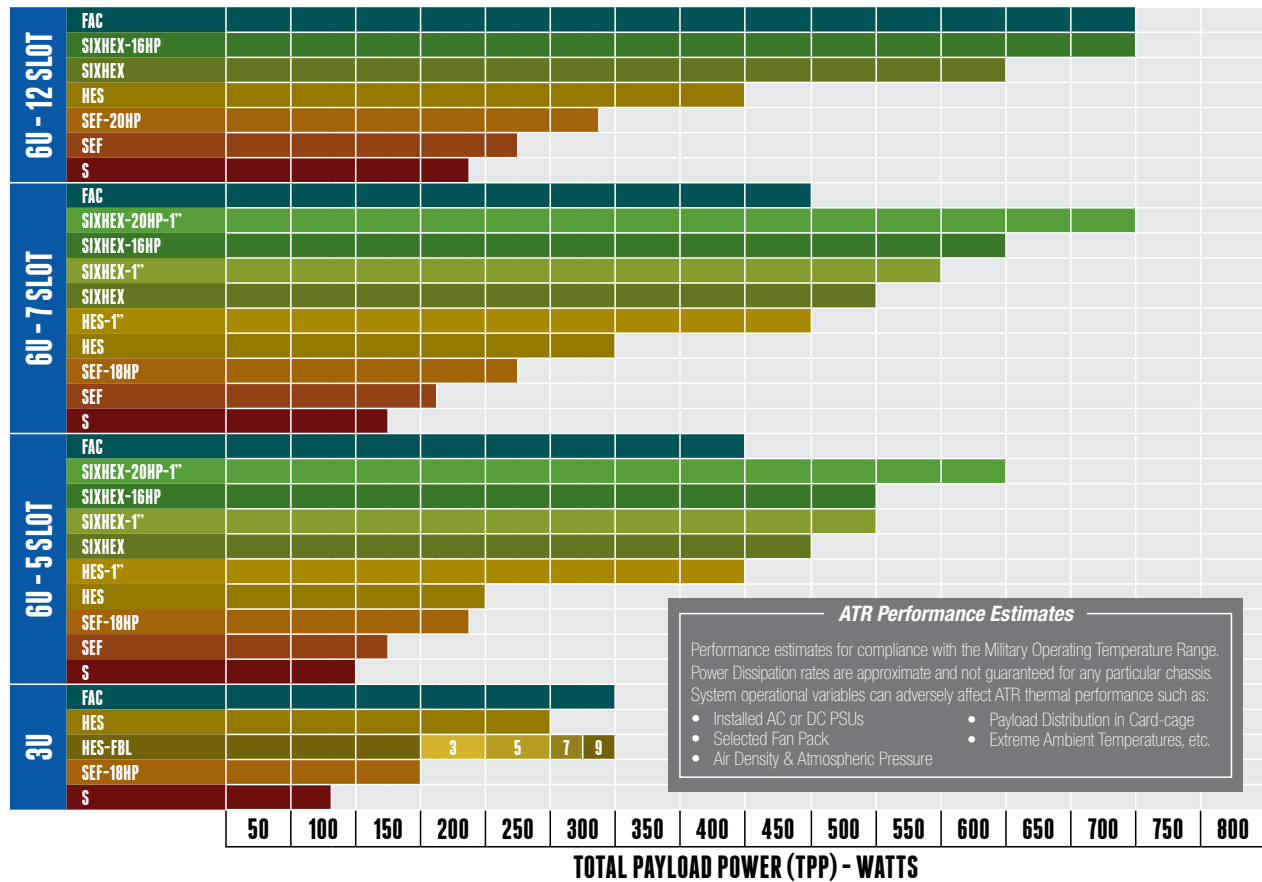
CM-ATR-45/HES/VME64x/90-264VAC/A-1050W/15-100W/-15-100W/UDP/HTC/HBC/MCS/F200-400/EMIG/B

- 12 slot, Heat Exchanger Sidewalls. 6U Avionics Enclosure.
- 12 slot VME64x backplane for 6U boards (0.8" pitch).
- Auto-range 90-264VAC @ 47-880Hz Input Power Supply.
- A-1050W power supply (+5VDC @ 80A, +3.3VDC @ 45A, ±12VDC @ 21A).
- (±)15VDC @ 6.6A DC/DC AUX1 & AUX2 user output on backplane.
- Temperature Supervisory Unit fitted as standard.
- User-defined front panel layout.
- High profile Top & Bottom cover. Universal Card-cage Slots.
- 4x Rotron PX2 military fan 115VAC @ 400Hz (260 CFM total).
- EMI shielded finger guards. Enclosure color: Black.



CM ATR CHASSIS THERMAL TESTING

CM ATR Chassis Selection Chart based on system total payload power dissipation



Glossary of Technical Terms establishing new chassis engineering terminology

- | | |
|--|---|
| <p>LT : Chassis Linear Thermal Test (Linear Test)</p> <p>PT : Chassis Peak Slot Thermal Test (Peak Test)</p> <p>MT : Chassis Mixed Linear & Peak Slot Thermal Test (Mixed Test)</p> <p>LT-AV : Linear Test Payload Average Temperature</p> <p>PT-AV : Peak Test Payload Average Temperature</p> <p>MT-T1 : Mixed Test Slot 1 Payload Temperature</p> <p>MT-AV : Mixed Test Payload Average Temperature (excluding Slot 1)</p> <p>ΔT : Chassis Payload Delta-T with respect to Ambient Temperature</p> <p>TPP : Total Payload Power</p> <p>TCEP : Total Chassis Electrical Power</p> <p>CPTR : Chassis Payload Thermal Resistance</p> <p>CGTR : Chassis Global Thermal Resistance</p> | <p>CHMPF : Chassis Half MTBF Power Factor</p> <p>CPMDC : Chassis Payload MTBF Degradation Coefficient</p> <p>CIA : Chassis Installed Airflow</p> <p>CEA : Chassis Effective Airflow</p> <p>ADDT : Ambient Airflow Delta-T</p> <p>CSAOP : Chassis Stable Airflow Operating Point</p> <p>CIARC : Chassis Impedance Airflow Reduction Coefficient</p> <p>MFARC : Multiple Fan Airflow Reduction Coefficient</p> <p>OARC : Overall Airflow Reduction Coefficient</p> <p>SCIDPC : Sealed Chassis Indirect Delta-T Power Coefficient</p> <p>PEADT : Payload to Exhaust Airflow Delta-T</p> <p>CCAAT : Chassis Cooling Airflow Average Temperature</p> |
|--|---|