



MaxAir.10™ Series

#MA-002

The MaxAir.10 MicroChassis™ is a versatile solution for cPCI applications.

Highest reliability available.

- Built to withstand rugged COTS requirements for military and aerospace. NEBS for telecommunications applications.
- Patented extruded aluminum cardframe provides maximum airflow between slot positions (Patent No. 5,506,751)
- Stainless steel inject/eject plate retains structural integrity with repeated insertion and removal of boards with high pin counts
- All aluminum housing construction and stainless steel hardware designed specifically for harsh environment applications

Built-in advantages with options.

- Turnkey microchassis in 52HP or 84HP is fully wired and tested
- Superior positive pressure cooling
- Front plug-in PSU available in AC or -48DC
- Optional removable air filter
- Redundant power
- Voltage status LED's available
- Power fail monitor available
- Tabletop or rackmount styles available
- EMI filler panels available
- Tabletop kit



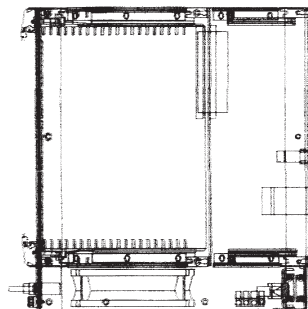
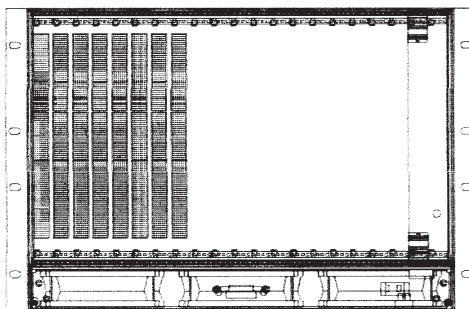
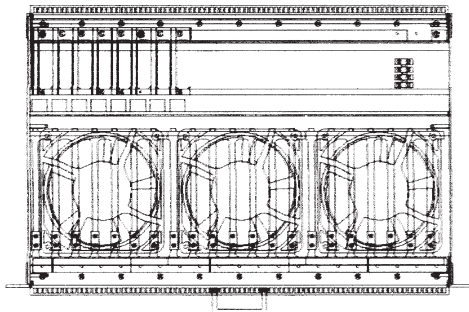
The MaxAir.10 MicroChassis – a versatile turnkey unit designed for cPCI product development in microcomputing, telecommunications, military and industrial environments.

Cost Competitive:

- Advanced design and manufacturing process makes MaxAir.10 cardframe system cost competitive with plastic molded systems

Industry Standards:

- IEEE 1101.1, IEEE 1101.10, IEEE 1101.11
- EIA310 and IEC297 rack mount standards
- Designed to survive shock per MIL-STD-203
- Designed to survive vibration per MIL-STD-167
- Designed to meet physical requirements of Telcordia GR-63-CORE (NEBS)



Triple E Corporation, 60 Foot of Crosby Street, Lowell, MA USA 01852

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Ordering Information



Specifications:

Cardframe

- Height: 7U, +1-in. for feet on tabletop version
- Width: 52HP or 84HP, Depth: 11.75"
- Finish: Powder coated smooth aluminum except where conductivity is required
- Cardguides: Extruded aluminum for .062" (1.6mm) PCB's
- Keying Blocks: Aluminum, black. Red for system controller slot
- ESD Spring Clips, Hardware, Ejector Plates: stainless steel
- Top and Bottom Covers: steel zinc plated

Cooling:

- 1U removable fan tray
- 12VDC fans
- 52HP: two 80cfm fans
- 84HP: three 80 cfm fans
- Optional mesh air filter

350W Power Supply:

General:

- Output: 5V@50A, 3.3V@40A, +12V@12A, -12V@4A
- Temperature Range: storage -40°C to +85°C
- Temperature Range: operating -25°C to 50°C
- MTBF: 250,000 hrs@25C

AC:

- Nominal input 115-240VAC, 6A max.
- Input: 90-264VAC, 47-63Hz
- Power Factor .99 line typical at 115VAC full load
- Meets EN 61000-3-2
- Inrush Current: 15Apk 115VAC, 30Apk 230VAC

DC:

- Nominal input -48VDC, 14A max.
- Operating Input: -36 to -75VDC
- Voltage Range: Transients to 140V for 2 sec
- Inrush Current: <5msec 80 amperes @48VDC

Backplane:

- PICMG basic specification 2.0 R3.0
- PICMG Hot Swap specification 2.1 R1.0
- 32-bit PCI transfer is selectable, 5V or 3.3V (5V is default), Right hand controller
- Nominal thickness: .220" (5.6mm)
- Bare boards are UL 94V-0 rated components. UL file number E.116551

Electrical Performance Criteria:

- Max. current/per contact: nom. @50°C 1.3A
- Crosstalk: 94.0mV
- Impedance: 65 ohms +/-10%
- Ground Bounce: 50mV

Environmental Criteria:

- Temperature Range: storage -40°C to +120°C
- Temperature Range: operating -20°C to +85°C
- Altitude: operating 40,000 ft. (12,000 m)
- Humidity: 90% R.H. non-condensing
- Shock, vibration and bump: exceeds ETS 300-019-2-5 Table 2a T5.2
- MTBF to MIL-HDBK-217F: >200,000 hrs
- Rapid Decompression: exceeds DEF STAN 00-35 test CL9 class F(4)

Order Codes:

MCM-6U	XX-WIDTH	XX-BACKPLANE SIZE	XX-MOUNTING OPTION	XX-POWER SUPPLY	XX-INPUT
	52 = 52HP 84 = 84HP	04 = 4 slot 06 = 6 slot 08 = 8 slot	RM = Rackmount TT = Tabletop	35 = Single 350W 70 = Dual 350W	AC = 115VAC DC = -48VDC

EXAMPLE: A 7U X 84HP (19" rackmount) chassis with 8 slot backplane and single AC power supply
Order Code: MCM-6U-84-08-RM-35-AC

NOTES: Available options include fan filter and PMA's. Please consult factory for order codes and availability.
A 4U high chassis that accepts 3U PCB's is available. Please consult factory for order code.
All enclosures include 80mm rear transitional card guides. The number of rear guides equals the number of backplane slots.

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