



Loadmaster® Rackmount Cases Protect and Connect

RUGGEDIZED CONNECTION

Loadmaster® Rackmount Cases are the toughest, lightest, most protective, portable military electronic enclosures anywhere. They are extremely durable in any environment. The slide-out rack can be unlatched and removed from the outer case when the rack is empty or when it is filled with electronic equipment. Slide-out 19-inch racks allow unlimited access to electronic equipment during installation, integration, and maintenance. Ruggedized ECS Rackmount Cases have been THE choice of American warfighters for more than 40-years.

ECS Rackmount Cases provide maximum sway space inside the smallest, lightest, toughest rackmount enclosures available anywhere. Enhanced sway space for the rack allows shock mounts to provide maximum shock and vibration protection for the equipment. Rackmount cases provide maximum attenuation of impact energy and unequalled shock and vibration protection for enclosed equipment. Rackmount case sizes are available from 3U-20U in rack height and front-to-back rack depths of 20.00", 24.00" and 30.00". TSC covers are available in 3" and 5" depths.

IDEAL CUSTOMER

- Military
- Information Systems
- Servers
- C4ISR
- Media

FEATURES

- Aluminum Rack
- 3 to 20 Unit Heights
- Stacking
- Meets MIL-STD-810G
- Comes In Many Colors

THE ECS DIFFERENCE

	ECS RACKMOUNTS	COMPETITORS RACKMOUNTS
MATERIAL	Glass mat fiberglass in polypropelene base	Rotationally molded LLDPE
TENSILE STRENGTH	14,000	4,000
TENSILE MODULUS	850,000	75,000
FLEXURAL STRENGTH	24,000	N/A
FLEXURAL MODULUS	800,000	105,000
THERMAL DEFLECTION	310	122
PAYLOAD	Up to 350 lbs.	Up to 150 lbs.
STANDARD SIZES	3U to 20U	
FASTENER INSERTS & LID HANGERS	Molded in threaded inserts to eliminate leak and NBC paths	
FEATURES	Stacking Latches, Ergonomic Handles, Air Valves, Gaskets, Lid Handles, Locking Latches	
OPTIONS	Clip Nuts or Nut Bars, Casters, Lid Pouches, Centergrip Handles, I/O Panels, Louvers, L-Bars, 5" sidemount casters	



"ECS was chosen for the fragile high cost items because of the superior quality, water tightness, and durability. (Competitors case) did not produce cases large enough for all components and with enough protection for very fragile components. (Competitors case) cases were identified to be used for items deemed not mission critical, or that will not degrade the system's operability due to their loss."

- Excerpt from recent contract award



COMPREHENSIVE SHOCK & VIBRATION PROTECTION

Loadmaster® Rackmount Cases provide excellent shock and vibration protection for electronic equipment of all types. TSC composite materials are very rigid under heavy stacking loads and resilient during impacts. Approximately one third of all impact energy is absorbed by the deflection of the TSC enclosure walls before impact forces are transferred to the shock mounts.

THE ULTIMATE COMPOSITE CASE MATERIAL

Rackmount cases are manufactured from ECS' incredibly strong TSC composite. Using compression molding presses up to 1,200-tons in capacity, ECS manufactures these cases of the same composite materials used for car bumpers and military truck components. TSC case shells provide extraordinary impact resistance and rugged durability at temperatures which exceed a range of -65° F to +185° F.

TOTAL PROTECTION FROM THE WORLD'S ENVIRONMENTS

Water tight TSC rackmount cases provide protection from moisture, salt spray, sand and dust throughout the world's climate extremes. Impervious to fuels, oils and solvents, they can also be decontaminated if exposed to chemical warfare agents.

CEA-310-E COMPLIANT EQUIPMENT RACKS

CEA-310-E compliant shock mounted interior racks are manufactured from compression molded TSC composite components and precision machined aluminum extrusions. Riveted aluminum vertical rails on these 19-inch racks provide multiple equipment mounting capabilities. Racks have equipment mounting holes in front and rear vertical members and interior vertical rails for attachment of slides and brackets. Two rackmount fastener types are available - Thread locking 10-32 clip nuts or stainless steel nut bars with 10-32 tapped holes.

SHOCK MOUNTED EQUIPMENT PROTECTION

19-inch CEA-310-E compliant racks are suspended within the center bodies of rackmount cases using eight multi-axis elastomeric shock mounts. Shock mounts are configured for the weight and center of gravity of the installed equipment, and they provide uniform performance in all three axes. Optional shock mount configurations and spring rates can be provided to support a broad range of equipment weights and equipment centers-of-gravity.

UNRESTRICTED EQUIPMENT OPERATION

Cases are stackable with covers installed or removed. With covers removed, electronic equipment is accessible front and back for ease of cabling and operation. Exterior stacking features securely engage and prevent shifting of cases. Optional case-to-case pivot latches are available to secure stacked cases together, but they rotate for retention during case shipment.

TSC RACKMOUNT CASES STACK WITH LOADMASTER STORAGE CASES

Loadmaster® Rackmount Cases have the Loadmaster® patented stacking features. These features allow rackmount cases to stack together and interlock with standard ECS Loadmaster® Shipping Cases

and storage cases. Set-up of military electronic systems has never been easier or more secure. Warehouse storage or palletized shipment of rackmount cases and transit cases has never been safer or more efficient.

HIGH PERFORMANCE HARDWARE

All hardware is recessed for maximum protection. Latches, custom brackets and rivets are stainless steel. Ergonomic acetal copolymer handles with UV inhibitor have comparable strength to steel at half the weight. An automatic air pressure relief valve protects the case and enclosed electronic equipment from rapid compression and decompression during transportation.

COLORS AND OPTIONS

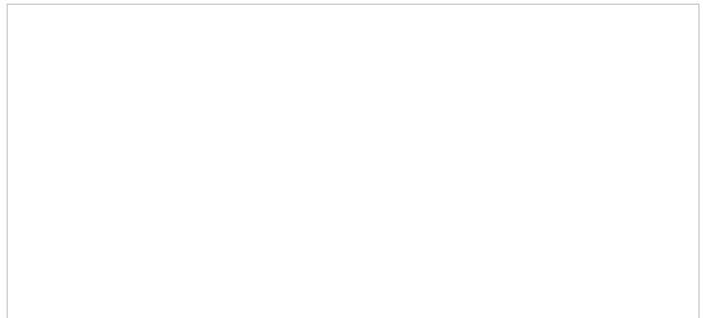
ECS Rackmount Cases are available in military colors, desert tan, black, olive drab and gray. Options are available including everything imaginable...from casters, slides, drawers, and work surfaces, ventilation systems, and exterior plug receptacles. Shielded racks can be supplied to provide EMI protection in accordance with MIL-STD-461.

MIL-STD-810G PERFORMANCE TESTING FOR:

- High and Low Temperature
- Drop Testing
- Transportation Vibration
- Loose Cargo Bounce
- Water Submersion/Wind Blown Rain
- Fungus Growth
- Low Pressure

"We bought two Rackmount Cases, which you went the extra mile to get to us with a very short time fuse, and which we subsequently used on our WC-130J aircraft working out of Guam with 250 flight hours in typhoons. Our equipment performed flawlessly in your cases, which I attribute in part to the internal shock mounted 19" racks which held our equipment. We have subsequently ordered three more cases for operations in Guam. .So all in all, I could not have expected more. We flew our sensitive equipment for receiving, processing and recording expendable probe data from 250 probes through four typhoons and came away with 100% data success."

- Peter



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