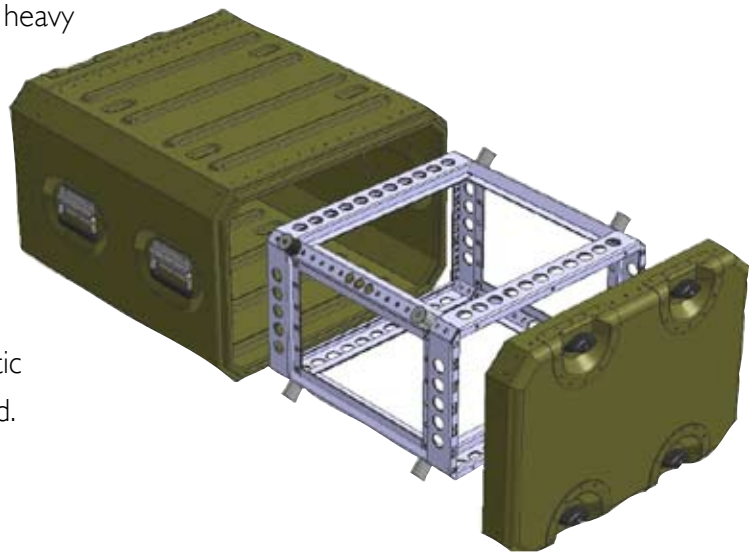
Lightweight 19 inch Protection

Transporting and deploying 19 inch electronic equipment has just taken a step forward, with the new aluminum Lightweight E-rack from CP Cases.

LIGHTWEIGHT E-RACK© RUGGEDIZED ALUMINUM

Patented new technology eliminates the need for a heavy edge extrusion seal, replacing it with an innovative folded rim design, making the rack case strong and light with good resistance to the ingress of water and dust.



The Lightweight E-Rack has been designed for military and commercial operations where protection from climatic, physical and electromagnetic hazards is required and an aluminum rack is specified.

Design features include:

- Very lightweight – the 6U 19 inch (480mm) deep version weighs only 33lb (14.7kg) including lids.
- 19 inch chassis compliant to ANSI/EIA-310-C
- Rugged, 60 thou (1.5mm) high tensile aluminum alloy construction.
- Recessed, sprung handles and quick release lid latches provide secure closure with front and rear access when stacked.
- Weatherproofing to EN 60529 / IP65.
- Stackable with inter-locating ribs on container top and bottom surfaces.
- Precision manufactured interchangeable lids.
- Available in 3U to 12U sizes.
- Standard. chassis depths 14-34 inches (35-87cm).
- Half rack designs also available.
- National Stock Numbers allocated.

Key feature:

The lid engagement profile is formed from the parent material by an innovative sequence of folds (patent pending). This avoids attaching an extruded section to the body and provides:

- Substantial weight reduction.
- Exceptional beam strength (>220lb (100kg) centre point load).
- No rivet holes with much reduced inherent risk of leakage.
- Excellent EMC shielding characteristics.

E-Racks are used for applications worldwide including:

- Satellite communications.
- Land, air and seaborne military communications.
- Broadcast Field Stations.
- Secure communications in oil/gas/utility industries.
- Test and Measurement Equipment.
- Geophysical survey instrumentation

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Lightweight E-Rack

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Features

Innovative Closure System

Half-turn lid latches feature fully recessed lobe knobs sculpted for easy grip even wearing arctic gloves.

Latch shaft guides fixed in the lid engage in striker sleeves attached to the body, pre-aligning the latch spindles as the lid is placed in position.

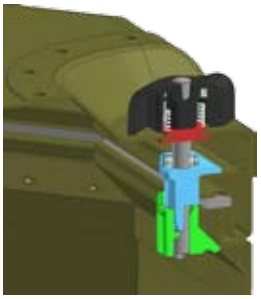
Helical cams inside the striker sleeves draw down the lid evenly to the body, providing optimum guaranteed seal compression. Fully home, the latches are securely located in anti-vibration indents.

Stainless steel spindle and cross pins provide for high loading closure of latch. Stainless steel return spring is fitted to disengage latch.

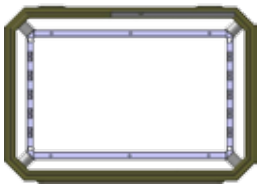
An elastomeric seal on the stainless steel latch spindle prevents ingress of contaminants.

Lid and body interface with a silicone gasket seal to exclude ingress of water, dust and sand, giving an Ingress Protection rating of > IP65. Operational working temperature of the seal is -40°F to +158°F (-40°C to +70°C)

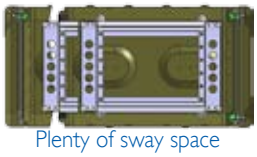
E-Rack meets MIL STD 810F and exceeds IP65.



Positive, user-friendly latches



Floating Rack chassis



Plenty of sway space

Floating Inner Rack Chassis

Ensures that electronic equipment is protected against vibration and impact, regardless of orientation.

Constructed from RoHS compliant, high tensile, alodined aluminum alloy giving enhanced lightness, conductivity, rigidity and durability.

Mounted on eight elastomeric mounts (AVMs), fixed to robust welded anchor plates in the outer rack body, focused towards the centre of mass.

Up to 110lb (50kg) standard payload.

Double elastomeric or wire rope mounts are available for heavier payloads.

Chassis easily repositioned 1 inch (25mm) "fore and aft" from the standard central position if required.

Up to 2 inches (50mm) of sway space between the inner chassis and outer container allowing the suspended inner chassis to move independently of the outer container in any direction.

Sway space accommodates up to 1 inch (25mm) of internal thermal insulation when required.

Field replaceable 10/32 stainless steel captive nut fasteners to secure equipment.

Earthing/grounding strap fitted to maintain conductivity between chassis and outer container.

Fully customisable to suit end user requirements with minimal delivery time and cost penalties.

Positive Stacking

- Stacking ribs are incorporated on top and bottom surfaces of rack body. E-Rack units are fully stackable with front and rear access when stacked.
- Interstacks with Lightweight E-Rack and Amazon Rack, with front face aligned regardless of body depth.
- Racks can be positively stacked together, allowing removal of front and rear lids without side access. Optional detachable link straps are available for locking stacked containers together.
- Retains body shape and "Lid Fit" integrity from -40°F to +158°F (-40 to +70°C) when stacked.

Very easily stacked

Pressure and Humidity Control

To equalize pressure of internals with the atmosphere, the following options are available:

- Automatic pressure relief valve (APV) (with manual override)
- 2 way venting Gortex membrane
- Humidity indicator (incl. reusable desiccant)

Options and Finishes

Accessories

- Air Conditioning Systems
- Wheelboard with swivel / lockable castors.
- Lifting eyebolts.
- Spring loaded lifting shackles.
- Rechargeable desiccant capsules.
- Lids fitted with cable cleats, storage pouches and hinged compartments.
- Customized connector panels in lids.
- Fixing brackets for bulk-heads in vehicles and ships.
- EMC shielding.
- Silicone rubber skirt / gaiter between the chassis and the outer container for use without lids in adverse weather conditions.
- Adjustable shelf supports.
- 19 inch storage drawers, keyboard trays, slides and other accessories.

Colours and surface finishes

As Standard: Commercial black, olive drab and blue (electrostatic polyester powder coated surface finishes, on etch and prime base).

Options include:

- Military Standard paint specifications
- Other RAL and Federal Standard colours
- Wet coatings and stove enamelling
- Infra Red reflective (IRR) coatings
- Anti static black coating on 19" inner chassis

Labelling Options

- Metal engraved or indented metal stamping.
- Acid etched labels, flush or surface fixed (ink fill optional).
- Vinyl cut, self adhesive labels.
- Screen printed logos and lettering.
- Stencilled logos and lettering.
- Thermally printed labels on a polyester substrate (in a variety of colours and shapes).
- Sequential serial number printing.
- Bar coding.

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