

# 19"/2"® CS390 Series



## Full Server in a 19"/2" form factor

The 19"/2" CS390 Series packs 3 disc RAID server into the 19"/2" form factor up to 75 % smaller than standard 19" rugged servers. This significantly reduces the servers weight, energy consumption and heat production.

## Built to take a beating

The server is combat proven to withstand the harshest conditions over the long haul. It features aluminium casing, rugged MIL connectors for easy integration and an will operate down to -40 °C.

## Guaranteed performance

Our products always come with a lifetime support to ensure your equipment maintains peak performance for many missions to come. We also serve units and stock spare parts for 5 years end-of-life.

## Mounting

All 19"/2" units can be mounted together in several different ways

- One 19"/2" unit can be mounted in a 19" rack
- Two 19"/2" units can be mounted together in a 19" rack
- Two or more devices can also be stacked on top of each other

# 19"/2 CS390 Series

## Technical Specification

|                                   |   |
|-----------------------------------|---|
| <b>CPU</b>                        | Intel Core Xeon E3-1505M V5 3.7 GHz<br>8 MB Cache, 4 Cores, 8 Threads   |
| <b>Graphics</b>                   | Intel HD Graphics P530  |
| <b>Resolution</b>                 | VGA: 2048 x 1536  |
| <b>RAM</b>                        | Maximum 32 GB RAM DDR4 (ECC support)  |
| <b>Storage</b>                    | 3 HDD slots for SATA SSD<br>Hardware RAID 0, 1.   |
| <b>Interface (front)</b>          | 1x VGA<br>2x Removable RAID disks<br>1x Removable USB backup disk<br>4x USB 2.0<br>2x LAN RJ45 (10/100/1000Mbps)<br>1x RS232 (full)<br>1 x DC in 12-32V (ITS) |
| <b>Interface (back)</b>           | 1x LAN 1 Gbit Fiber (LC)<br><i>see variants on page 3 for fibertype</i><br>2x USB 2.0<br>1x eSATA<br>1x Service port  |
| <b>Power Consumption</b>          | Max 100 W   |
| <b>Transient power protection</b> | Designed to meet MIL-STD-1275D  |
| <b>Case</b>                       | Aluminium   |
| <b>Dimensions</b>                 | 220 x 332 x 88 mm (W x D x H)   |
| <b>Weight</b>                     | ≤ 8 kg  |
| <b>Certification</b>              | Designed to meet IP54, MIL-STD-810F, MIL-STD-461F and MIL-STD-1275D   |
| <b>Other</b>                      | No fans   |

Designed to meet:

| MIL-STD-810G  | Operating  | Storage                                   |
|---|--|---|
| <b>Altitude</b><br>Method 500.5,<br>(procedure II,III)                  | 4572 m (15000 ft)                                    | Rapid decompression<br>12192 m (40000 ft) |
| <b>Humidity</b><br>Method 507.5<br>(procedure II)                       | Aggravated, 95% RH duration 5 days                   | -   |
| <b>Shock</b><br>Method 516.6,<br>(procedure I, IV)                      | 40 G, 11 ms<br>(Terminal-peak saw tooth shock pulse) | 122 cm (26 drops)*                        |
| <b>Salt fog</b><br>Method 509.5,<br>(Procedure I)                       | 4 x 24 hrs   | -   |
| <b>Temperature</b><br>Method 501.5 & Method 502.5,<br>(procedure I, II) | -40 °C to 55 °C<br>(-40°F to 131°F)                  | -40 °C to 71 °C<br>(-40°F to 160°F)       |
| <b>Temperature shock</b><br>Method 503.5<br>(procedure I)               | -40 °C to 55 °C<br>(-40°F to 131°F)                  | -   |
| <b>Vibration</b><br>Method 514.6  |  |   |
| - Category 14   | √  | -   |
| - Category 20 a & b   | √  | -   |

\* Only with optional Peli Case

Designed to meet:

| MIL-STD-461F                         | Limitation                   | Threshold          |
|--------------------------------------|------------------------------|--------------------|
| <b>EMI radiated</b><br>Method RE102  | 10 kHz to 18 GHz             | Navy Mobile & Army |
| <b>EMI radiated</b><br>Method RS103  | 2 MHz to 1 GHz               | Army               |
| <b>EMI conducted</b><br>Method CE102 | 10 kHz to 10 Mhz             | Basic Curve        |
| <b>EMI conducted</b><br>Method CS101 | 30Hz to 150 kHz              | Curve #1           |
| <b>EMI conducted</b><br>Method CS114 | 10 kHz to 200 MHz            | Army               |
| <b>EMI conducted</b><br>Method CS115 | Tested according to standard | Army               |
| <b>EMI conducted</b><br>Method CS116 | 10 kHz to 100 MHz            | Army               |

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## CS390 Series

| Part nr  | Product | Fiber Type          | Color           | Additional information |
|----------|---------|---------------------|-----------------|------------------------|
| 211-2531 | CS391   | Single Mode 1310 nm | RAL6031 (Green) |                        |
| 211-2532 | CS392   | Multi Mode 850 nm   | RAL6031 (Green) |                        |