



## AVANT-PC Products Datasheet

# RACKMOUNT DCS 72-128

P/N  
590-00916-001



The Data Center Systems (DCS) are composed of BLADE-AVANT units for server elaboration and for power supply. The units are characterized by frontal accessibility (AVANT) of modules, connections and commands. The units are designed for slide mounting (BLADE) and do not require the access to the P.S. rear connector. The server units are organized on two distinct modules (NODE) in hot swap configuration.

### HARDWARE SPECIFICATIONS

(Referred to a single NODE unless otherwise specified)

NUMBER OF NODES	:	2
Each Node is hot swap removable from the front panel.		
CPU	:	<ul style="list-style-type: none"> <li>4 Xeon E5-2695 v4 CPUs, 18 cores</li> </ul>
CORES	:	<ul style="list-style-type: none"> <li>36 cores per Node</li> </ul>
RAM	:	<ul style="list-style-type: none"> <li>4 x 16 GB RDIMM per Node</li> <li>128 GB TOTAL</li> <li>Max size: 8 x 288-bit DDR4 slots, 2133MT/s ECC Memory Reg. per Node</li> <li>Max installable size: 512GB (256 GB / Node)</li> <li>Memory mirroring supported</li> <li>One bit error correction</li> </ul>
HARD DISKS (per Node)	:	<ul style="list-style-type: none"> <li>1,8" SATA SSD</li> <li>4 SATA3 channels (6Gb/s)</li> <li>Max 2 SSD hot swap, removable from front panel</li> <li>Up to 2 internal hot swap SSD (opt.)</li> <li>Installed: 1 SSD per Node 480 GB SSD (240 GB opt.)</li> </ul>
PCI-E SLOTS	:	<ul style="list-style-type: none"> <li>N°1 PCI-E 3.0 LP slot per Node, available to the user</li> </ul>
RAID CONFIGURATIONS	:	<ul style="list-style-type: none"> <li>SATA RAID 0,1,5,10</li> <li>Technologies: RSTe 4.0 and ESRT2</li> </ul>
FRONT PORTS PER NODE	:	<ul style="list-style-type: none"> <li>N° 2 USB 2.0</li> <li>N° 1 RJ45 dedicated to IPMI</li> <li>N° 1 Sub-D15S VGA</li> <li>N° 2 LAN 10/100/1000 on RJ45</li> <li>N° 2 SFP+ 10GbE iSCSI/FCoE</li> </ul>
REAR PORTS	:	<ul style="list-style-type: none"> <li>Power Connector: AMP M 50xAWG18</li> </ul>

### SOFTWARE SPECIFICATIONS

OPERATING SYSTEM (Supplied upon request, also newer versions available)	:	<ul style="list-style-type: none"> <li>Windows Server 2012 R2</li> <li>VMWare® ESXi 6.0 U2</li> <li>Windows Server 2016</li> <li>Windows 10 Build 1511</li> <li>Red Hat® Enterprise Linux 6.8</li> <li>SUSE® Linux Enterprise Server 11 SP4</li> <li>Ubuntu® Server 16.04</li> <li>CentOS 7.2-1511</li> </ul>
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### POWER SUPPLY SPECIFICATIONS

The Power Supply Unit is a separated unit. It is composed of one module in redundant configuration. Each module manages up to two Nodes.

(Referred to a single PS module, unless otherwise specified)

MAINS INPUT VOLTAGE	:	<ul style="list-style-type: none"> <li>90 ÷ 264 Vac</li> </ul>
FREQUENCY	:	<ul style="list-style-type: none"> <li>47 ÷ 63 Hz</li> </ul>
MAX MAINS INPUT CURRENT	:	<ul style="list-style-type: none"> <li>7,5 Arms @ 230 Vac ;</li> <li>15 Arms @ 115Vac</li> </ul>
OUTPUT CHARACTERISTICS	:	<ul style="list-style-type: none"> <li>+12V Output, 78A max current</li> <li>+5Vsb Output, 3A max current</li> <li>+3,3Vsb Output, 20A max current</li> </ul>
MAINS INPUT CONNECTOR	:	<ul style="list-style-type: none"> <li>IEC-310-C14 with retention system</li> </ul>
HOT SWAP REDUNDANCY TECHNOLOGY	:	<ul style="list-style-type: none"> <li>Present at power supply module level</li> </ul>

### PHYSICAL SPECIFICATIONS

REQUIRED HEIGHT INSIDE THE RACK	:	• 2UR (88,9 mm)
TOTAL WIDTH INCLUDING RACK FIXING	:	• 19" (482,6 mm)
SYSTEM WIDTH INSIDE THE RACK	:	• 17,56" (446 mm) (rails included)
DEPTH INSIDE THE RACK	:	• 650mm
WEIGHT	:	• 70,5 lbs (32Kg)
PAINTING	:	• RAL-7030 Grey

### ENVIRONMENTAL SPECIFICATIONS

Operating TEMPERATURE	:	• 0° C ÷ +50° C • According to MIL STD 810G, method 501.5, procedure II.
Storage TEMPERATURE	:	• -10° C ÷ +70° C • According to MIL STD 810G, method 501.5, procedure I.
HUMIDITY	:	• Up to 90% @ 40°C, without condensation. • According to MIL STD 810G, method 507.5, procedure I.

### EMC SPECIFICATIONS

CE101	:	• Conducted Emissions through Power Leads, from 10KHz to 10MHz
CS101	:	• Conducted Susceptibility through Power Leads, from 30Hz to 150Hz
CS106	:	• Conducted Susceptibility, 400V transients through Power Leads
RE102	:	• Radiated Emissions, electric field from 10KHz to 18GHz
RS103	:	• Radiated Susceptibility, electric field from 2MHz to 18GHz.

### MECHANICAL ENVIRONMENTAL SPECIFICATIONS

VIBRATION	:	• 4 ÷ 33 Hz according to MIL-STD- 810G method 528 procedure I
SHOCK	:	• 15 g, 11 ms pulses according to MIL-STD-810G method 516.6 procedure I. Solicitation on each verse along the three axes.

### SAFETY SPECIFICATIONS

SAFETY	:	• Compliant with EN 60950 • Compliant with RoHS • Compliant with REACH • Compliant with CE
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