



AVANT-PC Products Datasheet

RACKMOUNT DCS 108-192

P/N
590-00917-001



The Data Center Systems (DCS) are composed of BLADE-AVANT units for server elaboration and for power supply.

HARDWARE SPECIFICATIONS

(Referred to a single NODE unless otherwise specified)

NUMBER OF NODES	:	3
Each node is hot swap removable from the front panel.		
CPU's	:	• 6 Xeon E5-2695 v4 CPU's, 18 cores
CORES	:	• 36 cores per Node
RAM	:	<ul style="list-style-type: none"> • 4 x 16 GB RDIMM per Node • 192 GB TOTAL • Max size: 8 x 288-bit DDR4 slots, 2133MT/s ECC Memory Reg. per Node • Max installable size: 768GB (256 / Node) • Memory mirroring supported • One bit error correction
HARD DISKS (per Node)	:	<ul style="list-style-type: none"> • 1,8" SATA SSD • 4 SATA3 channels (6Gb/s) • Max 2 SSD hot swap, removable from front panel • Up to 2 internal hot swap SSD (opt.) • Installed: 1 SSD per Node 480 GB SSD (240 GB opt.)
PCI-E SLOTS	:	• N°1 PCI-E 3.0 LP slot per Node, available to the user
RAID CONFIGURATIONS	:	<ul style="list-style-type: none"> • SATA RAID 0,1,5,10 • Technologies: RSTe 4.0 and ESRT2
FRONT PORTS PER NODE	:	<ul style="list-style-type: none"> • N° 2 USB 2.0 • N° 1 RJ45 dedicated to IPMI • N° 1 Sub-D15S VGA • N° 2 LAN 10/100/1000 on RJ45 • N° 2 SFP+ 10GbE iSCSI/FCoE
REAR PORTS	:	• Power Connector: AMP M 50xAWG18

SOFTWARE SPECIFICATIONS

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

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

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

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

PHYSICAL SPECIFICATIONS

REQUIRED HEIGHT INSIDE THE RACK	: • 3UR (133,35 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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