



AVANT-PC Products Datasheet

RACKMOUNT DCS 180-480

P/N
590-00919-001



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)

SOFTWARE SPECIFICATIONS

NUMBER OF NODES	:	5	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
Each Node is hot swap removable from the front panel.				
CPU	:	<ul style="list-style-type: none"> 10 Xeon E5-2695 v4 CPUs, 18 cores 	POWER SUPPLY SPECIFICATIONS The Power Supply Unit is a separated unit. It is composed of three modules in redundant configuration. Each module manages up to two Nodes.	(Referred to a single PS module, unless otherwise specified)
CORES	:	<ul style="list-style-type: none"> 36 cores per Node 		
RAM	:	<ul style="list-style-type: none"> 4 x 16 GB RDIMM per Node 480 GB TOTAL Max size: 8 x 288-bit DDR4 slots, 2133MT/s ECC Memory Reg. per Node Max installable size: 1280 GB (256 GB / Node) Memory mirroring supported One bit error correction 	MAINS INPUT VOLTAGE	: • 90 ÷ 264 Vac
HARD DISKS (per Node)	:	<ul style="list-style-type: none"> 1,8" SATA HDD 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	:	<ul style="list-style-type: none"> N°1 PCI-E 3.0 LP slot per Node, available to the user 	FREQUENCY	: • 47 ÷ 63 Hz
RAID CONFIGURATIONS	:	<ul style="list-style-type: none"> SATA RAID 0,1,5,10 Technologies: RSTe 4.0 and ESRT2 	MAX MAINS INPUT CURRENT	: • 7,5 Arms @ 230 Vac ; • 15 Arms @ 115Vac
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 	OUTPUT CHARACTERISTICS	: • +12V Output, 78A max current • +5Vsb Output, 3A max current • +3,3Vsb Output, 20A max current
REAR PORTS	:	<ul style="list-style-type: none"> Power Connector: AMP M 50xAWG18 	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	: • 4UR (177,8 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	: • 103,6 lbs (47Kg)
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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