

Fanless Server

Topic	Fanless SM1000		Fanless I1U1000		Fanless I2U1000		Fanless I3U1000	
Application	Department Server, Workgroup Server, Embedded Server, Industrial Server, Virtualization, Fanless NAS, Eco Server		IPC, Industrial Server, Embedded, Surveillance, Machine Vision, Virtualisation host		IPC, Industrial Server, Embedded, Surveillance, Machine Vision, Virtualisation host		IPC, Industrial Server, Embedded, Surveillance, Machine Vision, Virtualisation host	
Type	aluminium profile construction without venting holes, black anodized		aluminium profile construction without venting holes, natural anodized		aluminium profile construction without venting holes, natural anodized		aluminium profile construction without venting holes, natural anodized	
Dimensions (WxDxH)	214x211x70 mm		19"/1HE(1U), 483x250x44 mm		19"/2HE(2U), 483x250x88 mm		19"/3HE(3U), 483x250x176 mm	
Weight	2,0 kg		4,0 kg		4,5 kg		5 kg	
Cooling	Heatpipes attached to chassis		Heatpipes attached to chassis		Heatpipes attached to chassis		Heatpipes attached to chassis	
Operating condition	0..45°C / 80% rel. humidity		0..50°C / 80% rel. humidity		0..40°C / 80% rel. humidity		0..40°C / 80% rel. humidity	
CPU	Intel Atom C3558 Intel Atom C3758 Intel Atom C3858	4x 2.2 GHz 8x 2.2 GHz 12x 2.0 GHz	Intel Core i3 8100T Intel Core i5 8500T Intel Core i7 8700T	4x 3.1 GHz 4x 2.1 - 3.5 GHz 6x 2.4 - 4.0 GHz	Intel Core i3 7100 Intel Core i5 7500 Intel Core i7 7700 Intel Xeon E3-1245v6	2x 3.9 GHz 4x 3.4 - 3.8 GHz 4x 3.6 - 4.2 GHz 4x 3.7 - 4.1 GHz	Intel Core i3 7100 Intel Core i5 7500 Intel Core i7 7700 Intel Xeon E3-1245v6	2x 3.9 GHz 4x 3.4 - 3.8 GHz 4x 3.6 - 4.2 GHz 4x 3.7 - 4.1 GHz
RAM	4 GB DDR4, ECC, Reg. 8 GB DDR4, ECC, Reg. 16 GB DDR4, ECC, Reg. 32 GB DDR4, ECC, Reg. 64 GB DDR4, ECC, Reg. 128 GB DDR4, ECC, Reg.		4 GB DDR4, ECC 8 GB DDR4, ECC 16 GB DDR4, ECC 32 GB DDR4, ECC		4 GB DDR4, ECC 8 GB DDR4, ECC 16 GB DDR4, ECC 32 GB DDR4, ECC 64 GB DDR4, ECC		4 GB DDR4, ECC 8 GB DDR4, ECC 16 GB DDR4, ECC 32 GB DDR4, ECC 64 GB DDR4, ECC	
Mainboard	Supermicro Embedded		Supermicro Embedded, Q370 Chipset		Supermicro Embedded, C236 Chipset		Supermicro Embedded, C236 Chipset	
I/O front (standard)	-		2x 2.5" hotplug bay, 2x USB 2.0, 3x RS232		2x 2.5" hotplug bay, 2x USB 3.0		4x 2.5" hotplug bay, 2x USB 3.0	
I/O back	1x VGA, 2x USB 2.0, 1x USB 3.0, 4x RJ45 (Intel GLAN), 1x RS232		1x HDMI, 1x DVI-D, 1x Displayport, 4x USB 3.1 (2x Type A, 2x Type C), 2x RJ45 (Intel GLAN), 2x RS232/422/485, 1x RS232, 2x Audio		1x HDMI, 1x DVI-D, 1x Displayport, 2x USB 2.0, 2x USB 3.0, 2x USB 3.1, 2x RJ45 (Intel GLAN), 1x RS232, 5x Audio, 1x SPDIF		1x HDMI, 1x DVI-D, 1x Displayport, 2x USB 2.0, 2x USB 3.0, 2x USB 3.1, 2x RJ45 (Intel GLAN), 1x RS232, 5x Audio, 1x SPDIF	
I/O internal	internal I/O might be occupied - depending on your configuration 1x m.2 (SATA+PCIe) 2242/2280 , 2x USB 2.0, 1x USB 3.0, 1x PCIe 3.0 x4 (not usable), TPM		internal I/O might be occupied - depending on your configuration 1x m.2 (SATA+PCIe) 2242/2280 , 4x USB 2.0, 2x USB 3.0, 2x RS232, 1x PCIe 3.0 x16 (full size, Risercard required), TPM		internal I/O might be occupied - depending on your configuration 1x m.2 (SATA+PCIe) 2242/2260//2280/2210 , 4x USB 2.0, 4x USB 3.0, 1x PCIe 3.0 x16, 1x PCIe 3.0 x4, 1x PCI 32bit (one slot usable, full size, Riser card required), TPM		internal I/O might be occupied - depending on your configuration 1x m.2 (SATA+PCIe) 2242/2260//2280/2210 , 4x USB 2.0, 4x USB 3.0, 1x PCIe 3.0 x16, 1x PCIe 3.0 x4, 1x PCI 32bit (two slots usable, full size), TPM	

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Storage	In hotplug bay: 2x 2.5" SSD (Samsung 860EVO) or HDD (WD RED) 1x m.2 NVMe SSD (Samsung 970EVO) Software-RAID Level 1 optional	in hotplug bay: 2x 2.5" SSD (Industrial, MLC, 0..+70°C) or HDD (WD RED) 1x m.2 SSD (Industrial, MLC, 0..+70°C) Software or Chipset RAID optional	in hotplug bay: 2x 2.5" SSD (Industrial, MLC, 0..+70°C) or HDD (WD RED) 1x m.2 SSD (Industrial, MLC, 0..+70°C) Software or Chipset RAID optional	in hotplug bay: 4x 2.5" SSD (Industrial, MLC, 0..+70°C) or HDD (WD RED) 1x m.2 SSD (Industrial, MLC, 0..+70°C) Software or Chipset RAID optional
ODD	-	-	-	-
Graphics	ASPEED AST2400	Intel UHD630 up to 3 independent Displays supported max. Resolution: 4096x2304@60Hz (DP) max. Resolution: 4096x2304@24Hz (HDMI) max. Resolution: 1920x1200@60Hz (DVI)	Intel UHD630 (i3, i5, i7) or P630 (Xeon) up to 3 independent Displays supported max. Resolution: 4096x2304@60Hz (DP) max. Resolution: 4096x2304@24Hz (HDMI) max. Resolution: 1920x1200@60Hz (DVI)	Intel UHD630 (i3, i5, i7) or P630 (Xeon) up to 3 independent Displays supported max. Resolution: 4096x2304@60Hz (DP) max. Resolution: 4096x2304@24Hz (HDMI) max. Resolution: 1920x1200@60Hz (DVI) NVidia Quadro P1000 - attached to Heatpipe cooling system 4x Mini-Displayport, 1x DVI-D up to 4 independent Display supported max Resolution: 5120 x 2880 at 60Hz (DP) max Resolution: 1920x1200@60Hz (DVI)
Wireless LAN	-	-	-	-
LTE	-	-	-	-

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Power-In	<p>DC Input 12V, 5,5x2.5 mm plug DC Wide-Input 12..25V, 5.5x2.5 mm plug</p> <p>Redundancy: Your system is equipped with a second DC-In and second PSU. An additional circuit switches the entire load current to the remaining PSU if the other one fails, without any interruption in supply.</p> <p>Integrated UPS: Your system is equipped with an integrated Uninterruptible Power Supply. the UPS features LiFePo4 Akkus able to supply ~ 12Wh. Under Windows 10 OS it's recognized as notebook akku and needs no futher software or drivers. Though there is no configuraton needed, custom parameters can be made under power management settings.</p>		<p>DC Input 12V, 5,5x2.5 mm plug DC Wide-Input 12..25V, 5.5x2.5 mm plug</p> <p>Redundancy: Your system is equipped with a second DC-In and second PSU. An additional circuit switches the entire load current to the remaining PSU if the other one fails, without any interruption in supply.</p> <p>Integrated UPS: Your system is equipped with an integrated Uninterruptible Power Supply. the UPS features LiFePo4 Akkus able to supply ~ 12Wh. Under Windows 10 OS it's recognized as notebook akku and needs no futher software or drivers. Though there is no configuraton needed, custom parameters can be made under power management settings.</p>		<p>DC Input 12V, 5,5x2.5 mm plug DC Wide-Input 12..25V, 5.5x2.5 mm plug</p> <p>Redundancy: Your system is equipped with a second DC-In and second PSU. An additional circuit switches the entire load current to the remaining PSU if the other one fails, without any interruption in supply.</p> <p>Integrated UPS: Your system is equipped with an integrated Uninterruptible Power Supply. the UPS features LiFePo4 Akkus able to supply ~ 12Wh. Under Windows 10 OS it's recognized as notebook akku and needs no futher software or drivers. Though there is no configuraton needed, custom parameters can be made under power management settings.</p>		<p>DC Input 12V, 5,5x2.5 mm plug DC Wide-Input 12..25V, 5.5x2.5 mm plug</p> <p>Redundancy: Your system is equipped with a second DC-In and second PSU. An additional circuit switches the entire load current to the remaining PSU if the other one fails, without any interruption in supply.</p> <p>Integrated UPS: Your system is equipped with an integrated Uninterruptible Power Supply. the UPS features LiFePo4 Akkus able to supply ~ 12Wh. Under Windows 10 OS it's recognized as notebook akku and needs no futher software or drivers. Though there is no configuraton needed, custom parameters can be made under power management settings.</p>	
PSU	<p>FSP060-DHAN3 external AC/DC adapter</p> <p>Input: 90 to 264 VAC Output: 12V/60W</p>	<p>Meet Energy Star EPS2.0/ ErP Lot 7 Meet Energy Efficiency DOE Level VI Meet Code of Conduct Version 5 Tier 2 Meet High Altitude 5,000M Design High Reliability EMC Standard: EN55022 / EN55024 Class B Over Current Protection Over Temperature Protection Over Voltage Protection</p>	<p>FSP060DIBAN2 external AC/DC adapter</p> <p>Input: 90 to 264 VAC Output: 12V/60W</p>	<p>Meet Energy Star EPS2.0/ ErP Lot 7 Meet Energy Efficiency DOE Level VI Meet High Altitude 5,000M Design High Reliability EMC Standard: EN55022 / EN55024 Class B Over Current Protection Over Temperature Protection Over Voltage Protection Active PFC</p>	<p>FSP120-AHAN2 external AC/DC adapter with screwable plug</p> <p>Input: 90 to 264 VAC Output: 12V/120W</p>	<p>Meet Energy Star EPS2.0/ ErP Lot 7 Meet Energy Efficiency DOE Level VI Meet High Altitude 5,000M Design High Reliability EMC Standard: EN55022 / EN55024 Class B Over Current Protection Over Temperature Protection Over Voltage Protection Active PFC</p>	<p>FSP120-AHAN2 external AC/DC adapter with screwable plug</p> <p>Input: 90 to 264 VAC Output: 12V/120W</p>	<p>Meet Energy Star EPS2.0/ ErP Lot 7 Meet Energy Efficiency DOE Level VI Meet High Altitude 5,000M Design High Reliability EMC Standard: EN55022 / EN55024 Class B Over Current Protection Over Temperature Protection Over Voltage Protection Active PFC</p>
Power consumption	<p>Idle 100% load</p>	<p>10W ~45W</p>	<p>Idle 100% load</p>	<p>10W ~60W</p>	<p>Idle 100% load</p>	<p>10W ~60W</p>	<p>Idle 100% load</p>	<p>10W ~60W</p>

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OS compatibility	MS Windows 10 MS Windows 10 IoT Embedded Enterprise MS Windows Server 2016 Standard Ubuntu Linux Please ask for further compatibilities	MS Windows 10 MS Windows 10 IoT Embedded Enterprise Ubuntu Linux Please ask for further compatibilities	MS Windows 7 MS Windows 7 Embedded Standard MS Windows 8.1 MS Windows 10 MS Windows 10 IoT Embedded Enterprise MS Windows Server 2016 Standard Ubuntu Linux VMWare ESXi 6.0 (no onboard RAID) Please ask for further compatibilities	MS Windows 7 MS Windows 7 Embedded Standard MS Windows 8.1 MS Windows 10 MS Windows 10 IoT Embedded Enterprise MS Windows Server 2016 Standard Ubuntu Linux VMWare ESXi 6.0 (no onboard RAID) Please ask for further compatibilities
Scope of delivery	system, power cable, PSU, documentation, CE declaration of conformity	IPC, power cable, PSU, documentation, CE declaration of conformity	IPC, power cable, PSU, documentation, CE declaration of conformity	IPC, power cable, PSU, documentation, CE declaration of conformity
Compliance	CE, RoHS, ErP Lot7, meets requirements of EnergyStar	CE, RoHS, ErP Lot7, meets requirements of EnergyStar	CE, RoHS, ErP Lot7, meets requirements of EnergyStar	CE, RoHS, ErP Lot7, meets requirements of EnergyStar
Long term availability	until 2021	until 2023	until 2022	until 2022
Localization	Type of power cord, OS language, Keyboard layout, language of documentation English (UK) English (US) German	Type of power cord, OS language, Keyboard layout, language of documentation English (UK) English (US) German	Type of power cord, OS language, Keyboard layout, language of documentation English (UK) English (US) German	Type of power cord, OS language, Keyboard layout, language of documentation English (UK) English (US) German
Warranty	36 months bring-in	36 months bring-in	36 months bring-in	36 months bring-in
Miscellaneous	IPMI 2.0	-	-	-