

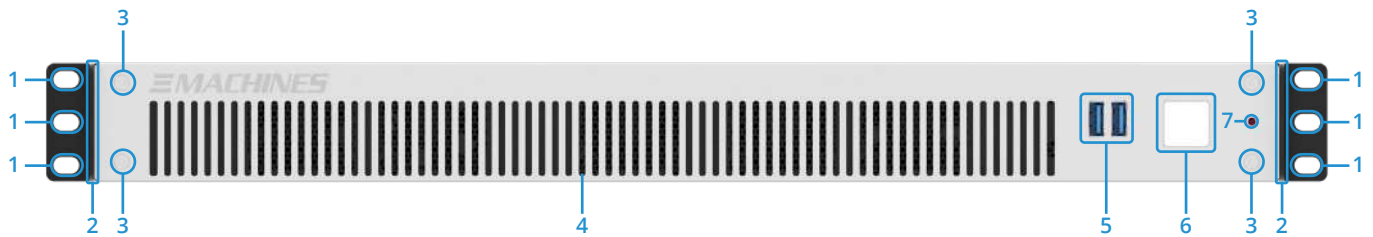
EMACHINES

flexible mediaserver FM1

TECHNICAL SPECIFICATIONS

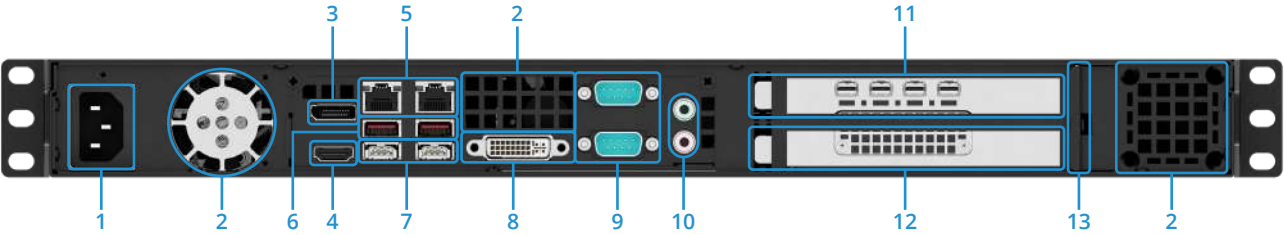
Overview & Connections

Front View - FM1



1	Mounting holes for Rack Screws Use corresponding screws to secure your FM1 in a rack.	2	Rack Handles Use these to handle your FM1. The rack handles can be removed if required.	3	Bezel Screws Do not unscrew. Manufacturer use only.
4	Air Intake Fresh air supply for the FM1. Do not block!	5	USB 3.1 Type-A Ports Use these to connect USB Type-A devices to your FM1.	6	Illuminated Power Button Press Button once to start your FM1. Push and hold to force a shutdown.
7	Error LED Lights up in case of system error such as overheat, fan fail or similar. If the LED is lit, check your FM1 for errors or consult your integrator and/or support technician.				

Rear View - FM1



1	IEC Power Connector Use this to connect your FM1 to a power source.	2	Air Outlet Heated air from inside of the FM1 will exhaust from here. Do not block!	3	DisplayPort Connector Control monitor output to display the graphical user interface (GUI).
4	HDMI 2.1 Port Control monitor output to display the graphical user interface (GUI).	5	1Gbit/sec Network Ports Use these to connect your FM1 to a network via a RJ45 cable. Maximum speed 1Gbit/s Ethernet.	6	USB 3.2 Type-A Ports Use these to connect USB Type-A devices to your FM1.
7	USB 3.2 Type-C Ports Use these to connect USB Type-C devices to your FM1.	8	DVI-D Port Control monitor output to display the graphical user interface (GUI).	9	Serial Ports Use these to connect serial devices to your FM1. (9-Pin RS-232 COM connector)
10	Audio Connectors Use these to connect audio devices to your FM1. 2x analog (3.5mm jack).	11	Main Display Outputs (mDP 1.4) Use these to connect your display devices to your FM1, e.g. projectors, LED wall controllers, displays.	12	Synchronization-Option Dedicated slot for optional sync-module. Only available when choosing Display Output Option RTX A4000. Enables frame-accurate synchronization of multiple FM1 servers. Caution: Do not connect to LAN, risk of damage!
13	Expansion Card Latch Locking mechanism for expansion cards.				

Technical Specifications

Applications	Validated for ¹	Pandoras Box, Pixera, Watchout, Vertex, Screenberry, Resolume, Touch Designer, Ventuz, vvvv, Unreal, Unity, Notch, vMix, OBS, Vioso, Madrix, POET, Universe
	Software License	Included or excluded depending on project requirements
Display Output	Number and Type	4x Mini DisplayPort 1.4
	Maximum Resolution @120Hz	4x 4096 × 2160
	Maximum Resolution @60Hz	4x 5120 x 2880 2x 7680 x 4320
	Color Depth Support	8bit 10bit 12bit
	EDID Management	Yes
	Synchronization (Framelock, Genlock)	optional (only for Display Output Option RTX A4000)
	Control Monitor Outputs (GUI)	Yes (1x HDMI, 1x Displayport, 1x DVI-D)
Video	Video Input	optional (SDI or HDMI through external NDI device)
	NDI Support	Yes
Audio	HD Audio	2x 3.5mm mini-jack
	Dante VS	pre-installed ²
Network	RJ45 Ports	2x 1Gbit/sec Ethernet
	WiFi	No
	Bluetooth	No
Peripheral	USB Ports	2x USB 3.2 Gen 1 Type-A (Front) 2x USB 3.2 Gen 2 Type-C (Back) 2x USB 3.2 Gen 2 Type-A (Back)
	Serial Port	2x 9-Pin RS-232 COM Port
Storage	System	500GB NVMe Drive (up to 3.5GB/sec)
	Content	No
Expansion Options	Maximum configurable number	0 - when choosing Display Output Option RTX A2000 (default) 1 - when choosing Display Output Option RTX A4000 (Sync Option only)
	Display Output Options	Nvidia RTX A4000
	Synchronization Option	Framelock/Genlock functionality (only for Display Output Option RTX A4000)
	Video Input Options	SDI (external NDI device) HDMI (external NDI device)
	Storage Options	1TB, 2TB, 4TB (up to 3.5B/sec)
	Memory Option	32GB System Memory
Physical Specifications	Dimensions Unit (WxHxD)	443mm x 44mm x 333mm 17.44" x 1.73" x 13.11"
	Dimensions Unit+Handles ³ (WxHxD)	482mm x 44mm x 333mm 19.00" x 1.73" x 13.11"
	Rack Installation Depth (D)	333mm 13.11"
	Weight ³	4,1kg 9.04Lbs
	Power Supply	Industrial PSU (350W, 100-240V AC, 10-6A, 50-60Hz)
	Power Consumption ⁴ idle/typical/max	32W / 142W / 149W
	Heat Dissipation ⁴ idle/typical/max	109BTU/h / 485BTU/h / 508BTU/h
	Noise Emission ⁴ idle/typical/max	43.6dB / 44.7dB / 45.1dB

	Power Consumption ⁴ idle/typical/max	38W / 217W / 222W (Display Output Option RTX A4000)
	Heat Dissipation ⁴ idle/typical/max	130BTU/h / 740BTU/h / 757BTU/h (Display Output Option RTX A4000)
	Noise Emission ⁴ idle/typical/max	42.8dB / 43.5dB / 44.3dB (Display Output Option RTX A4000)
	Operating Temperature	10°C - 36°C 50°F - 97°F
	Relative Humidity	10% to 90% non-condensing
Hardware Specifications	Hardware Platform	Professional-Class
	Certified for 24/7 Operation	Yes
	Cruise Ship optimized	Yes
	Hardware Security	Yes (TPM 2.0)
	Remote Management	No
	Illuminated Power Switch	Yes
	Integrated Rear LED lighting	No
	Integrated Rear Strain Relief Bar	No
	Unit Identifier Button & LED	No
	Internal USB License Dongle Holder	Yes (2-Port)
	Processor	Intel Processor (8 Cores / max 4.30Ghz)
	Graphics Accelerator	Nvidia RTX A2000
	System Memory	16GB
	System Memory Channels	2 Channels (used simultaneously)
	System Memory ECC	No
Operating System	Dedicated FM1 optimized Windows OS	
Bundled Accessories	Keyboard, Mouse, Power Cables, Hardware Guide, Recovery USB Stick	
Norms & Certifications	Norm	DIN 15781 (Entertainment technology - Media Server)
	Certifications	CE, FCC
Warranty & Support	Warranty	2 years (extended warranty for 3 / 4 / 5 years optional)
	Premium Support	Included (during warranty period)

¹ Your software not included? Talk to us!

² Software license required

³ Rack handles removable

⁴ Based on base configuration - values vary depending on Expansion Options selected

⁵ Measurements taken in sound lab at distance of 1m / 39.4"

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