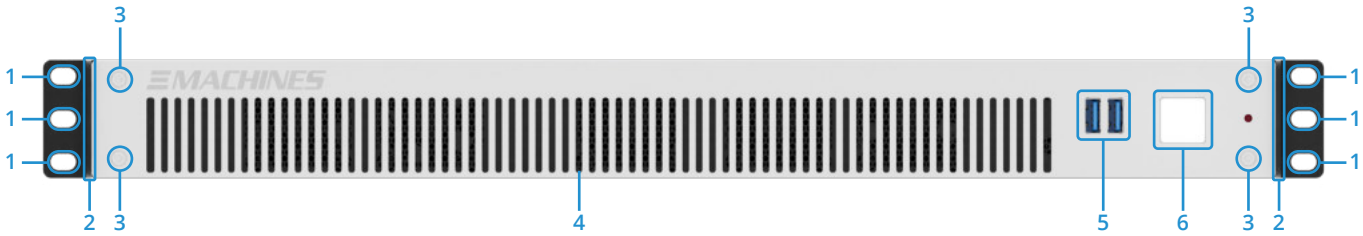
EMACHINES

flexible mediaserver FM1

TECHNICAL SPECIFICATIONS

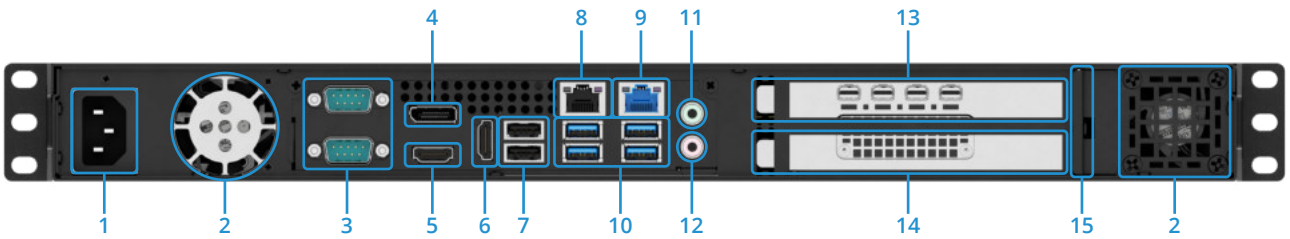
Overview & Connections

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 5Gbit/s 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.

Rear View - FM1



1	**IEC Power Connector** Provides power to the FM1 via a standard IEC connection.	2	**Air Outlet** Exhausts heated air from the FM1. Keep clear to ensure proper ventilation.	3	**Serial Ports** Connect serial devices to your FM1 using the 9-pin RS-232 COM connectors.
4	**DisplayPort 1.4b Connector** Can be used to output the graphical user interface (GUI) to a connected monitor.	5	**HDMI 2.0b Port** Can be used to output the graphical user interface (GUI) to a connected monitor.	6	**HDMI 1.4b Port** Can be used to output the graphical user interface (GUI) to a connected monitor.
7	**USB 2.0 Type-A Ports** Connect USB Type-A devices to your FM1.	8	**1Gbit/s Network Ports** Connect your FM1 to a network via an RJ45 cable with speeds of up to 1 Gbit/s Ethernet.	9	**2.5Gbit/s Network Ports** Connect your FM1 to a network via an RJ45 cable with speeds of up to 2.5 Gbit/s Ethernet.
10	**USB 10Gbit/s Type-A Ports** Connect USB Type-A devices to your FM1.	11	**Audio Output** Connect audio devices to your FM1 via the analog 3.5mm jack.	12	**Audio Input** Connect audio devices to your FM1 via the analog 3.5mm jack.
13	**Main Display Outputs (mDP 1.4)** Connect display devices to your FM1, such as projectors, LED wall controllers, and displays.	14	**Expansion Option** Dedicated PCI-Express slot for optional expansions.	15	**Expansion Card Latch** Locking mechanism to secure expansion cards.

Technical Specifications

Applications	Validated for [1]	Pandoras Box, Pixera, Watchout, Vertex, Lightact, Screenberry, Resolume, Ventuz, Touch Designer, vvvv, Unreal Engine, Unity Engine, Notch, vMix, OBS, Vioso, Madrix, POET, Universe Control
	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	✓
	Synchronization (Framelock, Genlock)	Optional (only for Display Output Option RTX 4000 ADA)
	Onboard Display Outputs [2]	2x HDMI, 1x Displayport
Video	Video Input	Optional (SDI, HDMI, Displayport, SPMTE ST 2110)
	NDI Support	✓
Audio	HD Audio	2x 3.5mm mini-jack
	Dante VS	Optional
Network	RJ45 Ports	1x 1Gbit/s Ethernet 1x 2.5Gbit/s Ethernet
	WiFi	-
	Bluetooth	-
Peripheral	USB Ports	4x USB 10Gbit/s Typ-A (Back) 2x USB 2.0 Typ-A (Back) 2x USB 5Gbit/s Typ-A (Front)
	Serial Port	2x 9-Pin RS-232 COM Port
Storage	System	1TB NVMe Drive
	Content	Optional
Expansion Options	Maximum configurable number [3, 4]	0 - when choosing Display Output Option RTX 2000 ADA (default) 1 - when choosing Display Output Option RTX 4000 ADA
	Display Output Options	Nvidia RTX 2000 ADA (default) Nvidia RTX 4000 ADA
	Control Output Option	Additional Control Monitor Outputs (4x mini Displayport)
	Synchronization Option	Framelock/Genlock functionality (only for Display Output Option RTX 4000 ADA)
	Video Input Options	SDI HDMI SDI+HDMI DisplayPort SMPTE ST2110
	Audio Options	Analog Dante / AVB AES
	Network Options	25Gbit/s Ethernet 10Gbit/s Ethernet 1Gbit/s Ethernet

	Storage Options	2TB, 4TB, 8TB, 16TB, 32TB (up to 7GB/s depending on selected option)
	Memory Option	64GB System Memory
	Silent Option	-
Physical Specifications	Dimensions Unit (WxHxD)	443mm x 44mm x 333mm | 17.44“ x 1.73“ x 13.11“
	Dimensions Unit+Handles [5] (WxHxD)	482mm x 44mm x 333mm | 19.00“ x 1.73“ x 13.11“
	Rack Installation Depth (D)	333mm | 13.11“
	Weight [6]	4,1kg | 9.04Lbs
	Power Supply	Industrial PSU (350W, 100-240V AC, 10-6A, 50-60Hz)
	Power Consumption [6] idle/typical/max	32W / 142W / 149W
	Heat Dissipation [6] idle/typical/max	109BTU/h / 485BTU/h / 508BTU/h
	Noise Emission [7] idle/typical/max	43.6dB / 44.7dB / 45.1dB
	Power Consumption [6] idle/typical/max	100W / 160W / 225W (Display Output Option RTX 4000 ADA)
	Heat Dissipation [6] idle/typical/max	341BTU/h / 546BTU/h / 768BTU/h (Display Output Option RTX 4000 ADA)
	Noise Emission [7] idle/typical/max	42.8dB / 43.5dB / 44.3dB (Display Output Option RTX 4000 ADA)
	Operating Temperature	10°C - 36°C | 50°F – 97°F
	Relative Humidity	10% to 90% non-condensing
Hardware Specifications	Hardware Platform	Intel Industrial
	Certified for 24/7 Operation	✓
	Cruise Ship optimized	✓
	Remote Management	✓
	Illuminated Power Switch	✓
	Integrated Rear LED lighting	-
	Integrated Rear Strain Relief Bar	-
	Internal USB License Dongle Holder	✓ (2x USB2 Type-A Ports)
	Processor	Intel Processor (8 P-Cores / 12 E-Cores / 28 Threads / max 5.20Ghz)
	Graphics Accelerator	Nvidia RTX 2000 ADA
	System Memory	32GB
	System Memory Channels	2 Channels (used simultaneously)
	System Memory ECC	✓
	Operating System	Flexible Mediaserver optimized Windows OS (Professional or IoT Enterprise LTSC)
	Bundled Accessories	Power Cables, Hardware Guide, Recovery USB Stick
Norms & Certifications	Norm	DIN 15781 (Entertainment technology - Media Server)
	Certifications	CE, UKCA, 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] Not suitable for use with typical media server applications
[3] Refers to additional PCIe expansion cards
[4] In addition to Main Display Output Option
[5] Chassis feet removable
[6] Based on base configuration - values vary depending on Expansion Options selected
[7] Measurements taken in sound lab at distance of 1m / 39.4"

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