

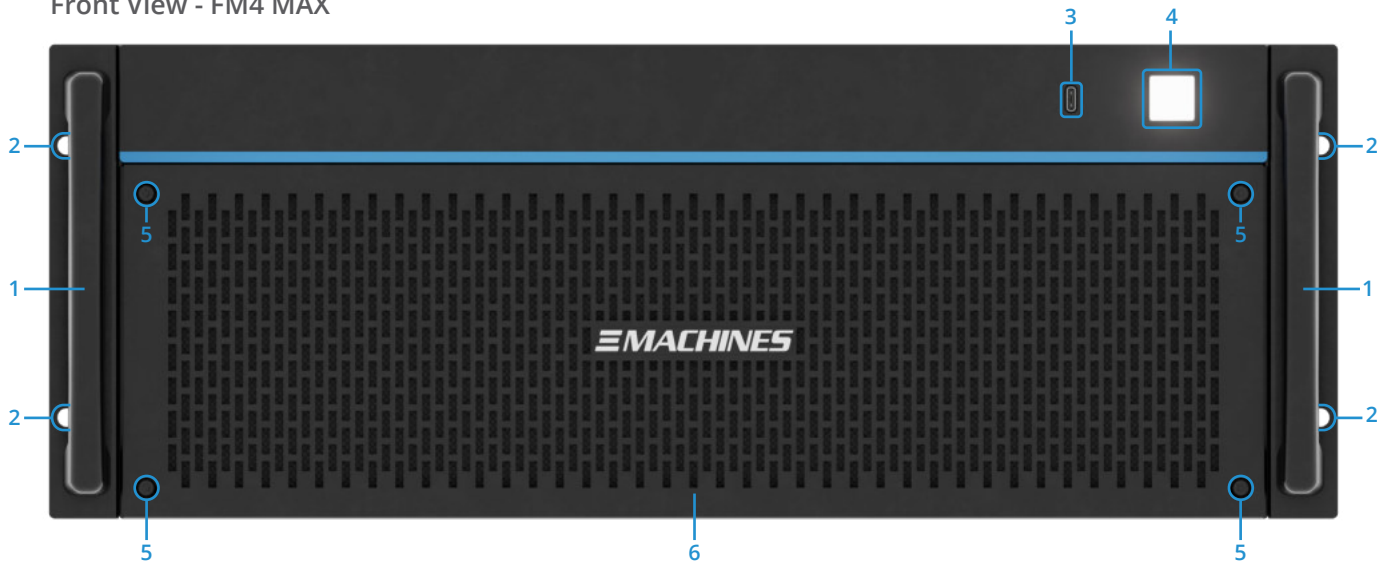
EMACHINES

flexible mediaserver FM4 MAX

TECHNICAL SPECIFICATIONS

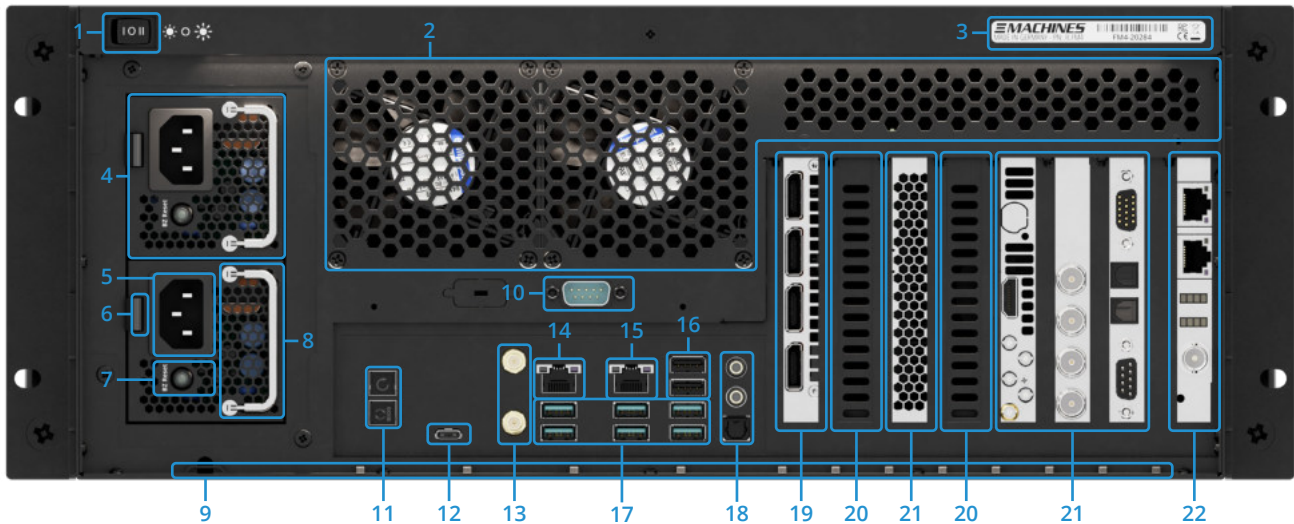
Overview & Connections

Front View - FM4 MAX



<p>1 Rack Handles Use these to handle your FM4. The rack handles can be removed if required.</p>	<p>2 Mounting holes for Rack Screws Use corresponding screws to secure your FM4 in a rack.</p>	<p>3 USB 20Gbit/s Type-C Port Use this to connect USB Type-C devices to your FM4.</p>
<p>4 Illuminated Power Button Press once to start your FM4. Press and hold to force shutdown.</p>	<p>5 Bezel Screws Loosen to access the integrated dust filter for maintenance.</p>	<p>6 Air Intake Supplies fresh air to the FM4. Do not block. Regularly inspect and clean the dust filter behind the intake as needed.</p>

Rear View - FM4 MAX



<p>1 Rear Light Switch Controls the integrated rear LED lighting (I = Dimmed / O = Off / II = Bright)</p>	<p>2 Air Outlet Exhausts heated air from inside the FM4. Do not block!</p>	<p>3 Nameplate Displays various information about your FM4, such as model number, serial number, etc.</p>
<p>4 Redundant Power Supply For increased reliability your FM4 is equipped with two PSUs. If one fails, your FM4 will still operate but sound alarm. Reset the alarm by pressing the reset button (7). The PSU is hot-pluggable during operation.</p>	<p>5 IEC Power Connector Use this to connect your FM4 to a power source. Important: Both power supplies must be connected to the power network, or an alarm will sound. (Different power circuits recommended!)</p>	<p>6 Power Supply Release Lever Gently push the lever towards the power connector, then use the power supply handle (8) to pull out the power supply.</p>
<p>7 Alarm Reset Button Pressing this button will silence the power supply alarm and disable the alarm LED.</p>	<p>8 Power Supply Handle Fold the handle 90° and gently pull out the power supply. Important: Press the power supply release lever (6) at the same time!</p>	<p>9 Strain Relief Rail To prevent accidental damage to your FM4, we recommend securing the wiring with cable ties. Your FM4 includes 13 dedicated holders for this purpose. (Cable ties included)</p>
<p>10 Serial Port Use this 9-pin RS-232 COM connector to connect serial devices to your FM4.</p>	<p>11 BIOS Flashback Manufacturer use only.</p>	<p>12 USB 20Gbit/s Type-C Port Use these to connect USB Type-C devices to your FM4.</p>
<p>13 WiFi Antenna Connectors Use these to connect your FM4 to wireless networks. (WiFi antennas included)</p>	<p>14 2.5Gbit/sec Network Port Use this to connect your FM4 to a network via a RJ45 cable. Maximum speed 2.5Gbit/s Ethernet.</p>	<p>15 10Gbit/sec Network Ports Use this to connect your FM4 to a network via RJ45 cables. Maximum speed 10Gbit/s Ethernet.</p>
<p>16 USB 2.0 Type-A Ports Use these to connect USB Type-A devices to your FM4.</p>	<p>17 USB 10Gbit/s Type-A Ports Use these to connect USB Type-A devices to your FM4.</p>	<p>18 Audio Connectors Use these to connect audio devices to your FM4. 3.5mm TRS Input & Output, optical (S/PDIF)</p>
<p>19 Main Display Outputs (DP 1.4) Use these to connect your display devices to your FM4, e.g. projectors, LED wall controllers, displays.</p>	<p>20 Slot Covers FM4 air vent - No further function.</p>	<p>21 Expansion Options Used for optional FM4 expansions. For information on all expansion options available for FM4, contact our sales team.</p>
<p>22 Synchronization-Option Dedicated slot for optional sync-module. Enables frame-accurate synchronization of multiple FM4 servers. Caution: Do not connect to LAN, risk of damage!</p>		

Technical Specifications

Applications	Validated for ¹	Pandoras Box, Pixera, Watchout, Vertex, Lighttact, 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 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
	Onboard Display Outputs	-
Video	Video Input	Optional (SDI, HDMI, DisplayPort, SMPTE ST 2110)
	NDI Support	✓
Audio	Analog Audio	2x 3.5mm TRS, 1x optical
	Dante VS	Optional
Network	RJ45 Ports	1x 10Gbit/s Ethernet 1x 2.5Gbit/s Ethernet
	WiFi	WiFi 7 (IEEE 802.11be)
	Bluetooth	Bluetooth 5.4
Peripheral	USB Ports	1x USB 20Gbit/s Type-C (Back) 6x USB 10Gbit/s Type-A (Back) 2x USB 2.0 Type-A (Back) 1x USB 20Gbit/s Type-C (Front)
	Serial Port	1x 9-Pin RS-232 COM Port
Storage	System	1TB NVMe Drive
	Content	2TB Storage-Option (up to 7GB/sec)
Expansion Options	Maximum configurable number ^{2,3}	4 + Synchronization Option (dedicated slot)
	Display Output Options	Nvidia RTX 4000 ADA (default) Nvidia RTX 4500 ADA Nvidia RTX 5000 ADA Nvidia RTX 6000 ADA
	Control Output Option	Additional Control Monitor Outputs (4x mini DisplayPort)
	Synchronization Option	Framelock/Genlock functionality
	Video Input Options	SDI HDMI SDI+HDMI DisplayPort SMPTE ST 2110
	Audio Options	Analog Dante / AVB AES
	Network Options	100Gbit/s Ethernet 25Gbit/s Ethernet 10Gbit/s Ethernet 1Gbit/s Ethernet

	Storage Options	4TB, 8TB, 16TB, 32TB, 64TB (up to 28GB/s depending on Option)
	Memory Option	128GB, 256GB System Memory
	Silent Option ⁴	Low-noise optimization for use in noise-sensitive environments (Swap of redundant PSU with single silent PSU and other silent modifications)
Physical Specifications	Dimensions Unit (WxHxD)	430mm x 177mm x 399mm 16.93" x 6.97" x 15.71"
	Dimensions Unit+Handles ⁵ (WxHxD)	482mm x 177mm x 399mm 19.00" x 6.97" x 15.71"
	Rack Installation Depth (D)	395mm 15.55"
	Weight ⁶	17,7kg 39,02Lbs
	Redundant Power Supply	Redundant hot plug (2x 900W, 100-240V AC, 10-6A, 50-60Hz) Redundant hot plug (2x 1600W, 100-264V AC, 10-5A, 47-63Hz) ⁷
	Power Consumption ⁶ idle/typical/max	225W / 360W / 650W
	Heat Dissipation ⁶ idle/typical/max	768BTU/h / 1228BTU/h / 2218BTU/h
	Noise Emission ^{6,8} idle/typical/max	43.4dB / 49.0dB / 50.7dB 34.1dB / 43.4dB / 46.4dB (when choosing the Silent Option ⁴)
	Operating Temperature	10°C - 36°C 50°F - 97°F
	Relative Humidity	10% to 90% non-condensing
Hardware Specifications	Hardware Platform	AMD Professional
	Certified for 24/7 Operation	✓
	Cruise Ship optimized	✓
	Illuminated Power Switch	✓
	Integrated Rear LED lighting	✓ (2 Brightness Levels)
	Integrated Rear Strain Relief Bar	✓
	Internal USB License Dongle Holder	✓ (2x USB 5Gbit/s Type-A)
	Processor	AMD Threadripper (24 Cores. 48 Threads, max. 5.3GHz)
	Graphics Accelerator	Nvidia RTX 4000 ADA
	System Memory	64GB
	System Memory Channels	4 Channels (used simultaneously)
	System Memory ECC	✓
	Operating System	Flexible Mediaserver optimized Windows OS (Professional or IoT Enterprise LTSC)
	Bundled Accessories	Keyboard, Mouse, Power Cables, Cable Ties, Hardware Guide, Backup-USB-Stick
	Norms & Certifications	Norm
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 Refers to additional PCIe expansion cards

³ In addition to Main Display Output Option

⁴ Only selected Expansion Options available

⁵ Rack handles removable

⁶ Based on base configuration - values vary depending on Expansion Options selected

⁷ 1600W only applicable in larger multi GPU-configurations

⁸ Measurements taken in sound lab at distance of 1m / 39.4"

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