



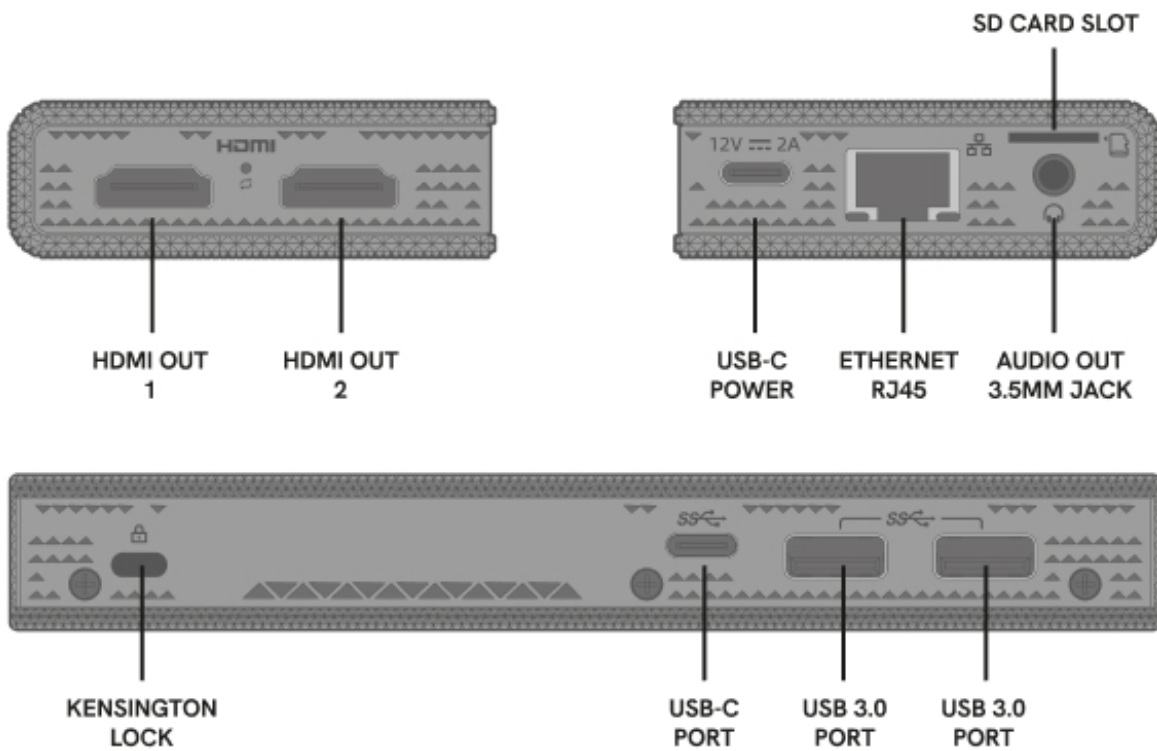
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Mago Essential MH-CORE-IOT Specifications Sheet

Last updated: May 5, 2025



Product Images



Specifications

Product Name	Mago Core IOT Device (for Mago Essential)
Product SKU	MH-CORE-IOT (fanless) MH-CORE-IOT2 (with fan)
Product Model No.	PCG02Pro-JSP
Dimensions (device only)	145mm x 60mm x 19mm (0.165L)
CPU	
Product Collection	Intel® Celeron® Processor N Series
Code Name	Jasper Lake (11th Gen Intel® Processors)
Processor Number	N5105
Processor Base Frequency	2.0GHz
Burts Frequency	2.9GHz
Total Cores	4
Total Threads	4
Cache	4MB L3 Cache
TDP	10W
GPU	
Processor Graphics	Intel® UHD Graphics
Graphics Frequency	Base: 450MHz
Max Resolution	4096x2160@60Hz
Execution Units	24
# of Displays Supported	2
Memory (RAM)	
Memory Size	8GB
Maximum Memory Speed	2933 MHz
Memory Type	LPDDR4x
Memory Channels	Single Channel
Storage	
eMMC	128 GB eMMC 5.1, theoretical data speed 400MB/s
Network and Connectivity	
WiFi	WiFi 5 (802.11ac) Support for 2.4GHz, 5GHz Compatible with 802.11 a/b/g/n Intel® AC9560 (TX/RX Streams 2T2R, Support 160MHz Band, Max Speed 1.7Gbps)
Ethernet	10/100/1000Mbps 1x RJ-45 Jack Realtek RTL8111H
Bluetooth	BT5.2 built-in with WiFi module
USB Ports	1x USB Type-C (theoretical data speed 5Gbps) 2x USB3.0 Gen2 (theoretical data speed 10Gbps) Support for external HDD / SSD up to 5TB
Graphics Output	
HDMI Output	2x HDMI 2.0 Support 4K@60fps Max Resolution : 4096x2160@60Hz HDR Support
Audio	
Audio output	Intel High Definition Audio via HDMI 1x 3.5mm earphone

Audio input	1x Microphone (Combo with 3.5mm earphone)
Software	
Operating System	Windows 11 Pro or Windows 11 IOT Enterprise
BIOS Support	Auto power on Boot from Network PXE Boot / iPXE Boot UEFI Boot S5 RTC Wake Wake On Lan Boot order BIOS / CMOS Reset
Power	
Power button	1x Power On / Off button Power off: red indicator Power on / sleep: blue indicator
CMOS Battery	1x Non-rechargeable Lithium-Manganese battery CR20322 220mAh (Wh=3.3x220/1000=0.726)
Power input	DC IN 12V/2A 1x USB Type-C power supplier Operating voltage range: 12V~20V Support for PD3.0 Protocol
Environment	
Temperature	Operation Temperature 0°C~30°C (Support CPU full speed running continuously) 30°C~35°C (Support 4K@60fps playback by Movie & TV App) Storage Temperature -20 ~ 60°C (Restore to operation temperature 2hr before to use)
Humidity	Operating Humidity 35% ~ 80% relative humidity, Non-condensing Storage Humidity 20% ~ 93% relative humidity, Non-condensing
Mounting	
VESA Mount	Support for VESA bracket (included) Support for 75mm and 100mm mounting holes
Anti-Theft	
Key Lock Hole	Support for Kensington Security Lock Slot
Certifications	
USA	FCC SDoC FCC ID (Contains FCC TX ID: PD9AX201D2)
EU	CE (LVD & EMC, RED) WEEE EPR
UK	UKCA (LVD & EMC, RED) WEEE Package Regular
Warranty	
Hardware warranty	2 years