

DATA SHEET FW4C

# Protectli Appliance Protectli Vault FW4C 4 Port 2.5G - Intel® J3710



# Specifications

Model	FW4C		
Description	4x 2.5G Network Port Fanless Appliance		
Processor	Intel J3710 (64 Bit, 1.6 GHz, 2MB L2 Cache)		
Processor Cores	4		
Processor Threads	4		
Intel AES-NI	Supported		
Virtualization	Intel Vt-x		
Network	4x Intel I225-V Rev. B3 2.5G Ethernet, RJ-45		
Video / Graphics	Intel Clear Video HD, 2x HDMI 1.4		
Audio	Audio over HDMI, 1x 3.5mm Audio Jack		
Memory	1x SO-DIMM DDR3L-1600, 1.35v, Max 8GB		
Storage	1x mSATA		
Optional Storage	1x Internal SATA 3.0 Data and Power Connector		
External I/O	4x RJ-45 Ethernet		
	2x USB 3.2 Gen 2 Type A		
	2x HDMI		
	1x 3.5mm Audio Jack		
	1x RJ-45 COM		
	2x WiFi/LTE Antenna Mounting Holes		
	1x 12V DC Power Jack		
Internal I/O	1x Mini PCIe for mSATA		
	1x SATA Header, 1x SATA Power		
	1x Full Height mPCIe (USB) for WiFi or LTE		
	1x USB 2.0 Header		
	1x CMOS Reset (2 pin)		
	1x Front Panel Header (9 pin)		
BIOS	AMI or coreboot		
Indicators	1x LED Power Button (Blue), 1x LED Power Indicator (Green), 1x LED Disk Activity Indicator (Red), 1x LED Disk Activity Indicator (Yellow)		
Power	Input 12V DC, 1x DC Power Jack		
Power Usage	Max 20W		



Chassis	Fanless, Aluminum, Black			
C1183313	Talkess, Aluminum, Diack			
Chassis Dimensions	4.5 x 4.3 x 1.5 in, 115 x 107.5 x 39 mm			
Mounting Options	Desktop, VESA Bracket, Optional 1RU Rack Mount			
Weight	1 lb 2 oz, 0.50 kg			
Shipping Weight	2 lbs 13 oz, 1.2 kg			
Operating				
Temperature	+14° - +122° F, -10° - +50° C			
Operating Humidity	0 – 95% relative humidity, non-condensing			
Approvals	UL (Power Supply), FCC Part 15 Class B, CE, RCM, RoHS			
Country of Origin	Made in China, Assembled in USA, Canada, or Germany			
Optional WiFi	1x mPCle 802.11b/g/n (USB)			
Optional LTE				
Cellular	1x mPCle 4G LTE (USB)			



# System Features

Front Features

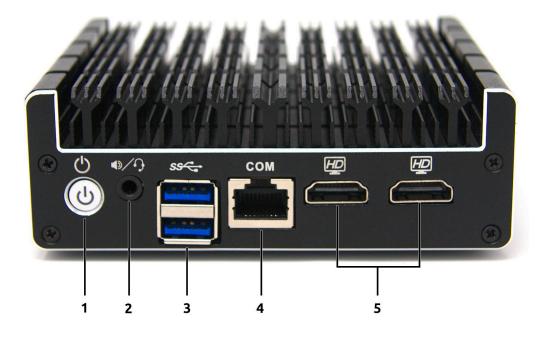
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	OPT2	OPT1	LAN	WAN	DC 12V ⊝-€-⊕
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ltem #	Object	Description
1	HDD Activity LED	This red LED will light up when data activity is detected on either the mSATA or SATA interfaces.
2	Power Indicator LED	This LED will stay solid green when the device is powered on.
3	Ethernet Port 4	The fourth 10/100/1000/2500 Mbps Intel® i225 ethernet port.
4	Ethernet Port 3	The third 10/100/1000/2500 Mbps Intel® i225 ethernet port.
5	Ethernet Port 2	The second 10/100/1000/2500 Mbps Intel® i225 ethernet port. This port is labeled "LAN" for



		convenience, but is not limited in its capacity.
6	Ethernet Port 1	The first 10/100/1000/2500 Mbps Intel® i225 ethernet port. This port is labeled "WAN" for convenience, but is not limited in its capacity.
7	Power Supply Connector	12V DC barrel connector for the 40W external power supply. Positive rail is the tip, negative is sleeve.

#### Rear Features



ltem #	Object	Description
1	Power Button	Pressing the Power Button will power the unit on and illuminate with a blue LED.
		In OSes configured to handle ACPI signals, pressing the power button initiates a shutdown.
		Pressing and holding the Power Button for 5 seconds will force the unit to power off.
2	Speaker and Microphone Port	A 3.5mm TRRS plug can be used to output stereo sound and input mono microphone.



3	Two USB3 Connectors	USB 3.2 Gen 2 Type-A connectors.
4	Serial Console Port	RS232 serial communications via RJ-45. Default port settings:
5	Two HDMI Connectors	Dual video and audio output via HDMI.

#### Left Features

ltem #	Object	Description	
1	Antenna Ports	Two antenna ports for adding radio antennas (WiFi, LTE, etc.). The ports are covered by plugs while not in use.	

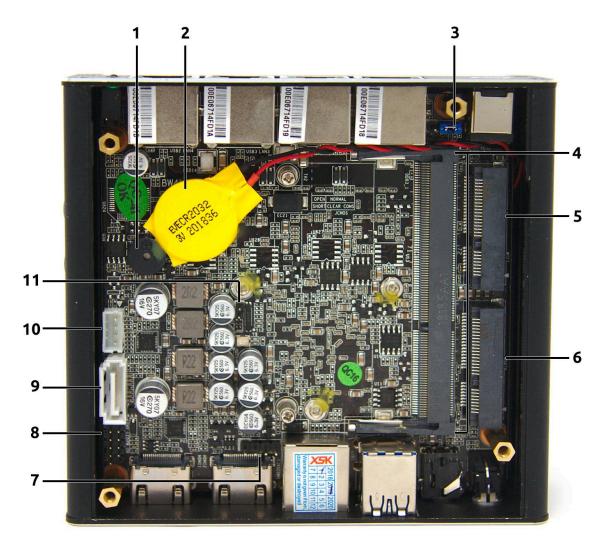
### **Right Features**

ltem #	Object	Description
1	Security Slot	A security slot allows for a physical security cable lock or similar devices.





### Motherboard Top View



ltem #	Object	Label	Description
1	Buzzer		PC speaker.
2	CMOS Battery		3V CR2032 connected via 2-pin connector on the opposite side of the motherboard.
3	Power Restore Jumper	JPWR	Jumper setting determines system state after power loss. Closing the jumper will cause the unit to automatically power on when power is restored after an outage.
4	Memory Slot	DDR3_1	DDR3 SODIMM.



5	WiFi Expansion Slot	WIFI	Connector uses USB protocol over an mPCI connector. Designed for Protectli WiFI and LTE modems, but is not limited in its capabilities.
6	mSATA Connector	MSATA	Connector for an mSATA storage device, such as an SSD.
7	USB 2.0 Header	FUSB2	Internal header for additional USB 2.0 connections.
8	Front Panel Header		Internal header for adding external device controls and indicators featured through the front panel, such as power button, reset button, activity LEDs, etc.
9	SATA Data Connector	SATADATA	SATA III data connector. Recommended for additional storage, such as a 2.5" SATA SSD.
10	SATA Power Connector	SATAPWR	SATA power connector for additional storage.
11	NVRAM Reset Jumper	JCMOS	Shorting this jumper while the CMOS battery is connected will reset the BIOS NVRAM.

#### Measurement View





### Document History

2024-06-28

- Clarified PCI and USB specifications such as speed, protocol, etc. 2024-05-17
  - Clarified LTE and/or WiFi slot naming schemes

2023-08-31

• Clarify details about the i225-V network interfaces.

2023-03-21

• Initial document