

Protectli Appliance

Protectli Vault Pro VP2410 4 Port - Intel®

J4125

June 28, 2024

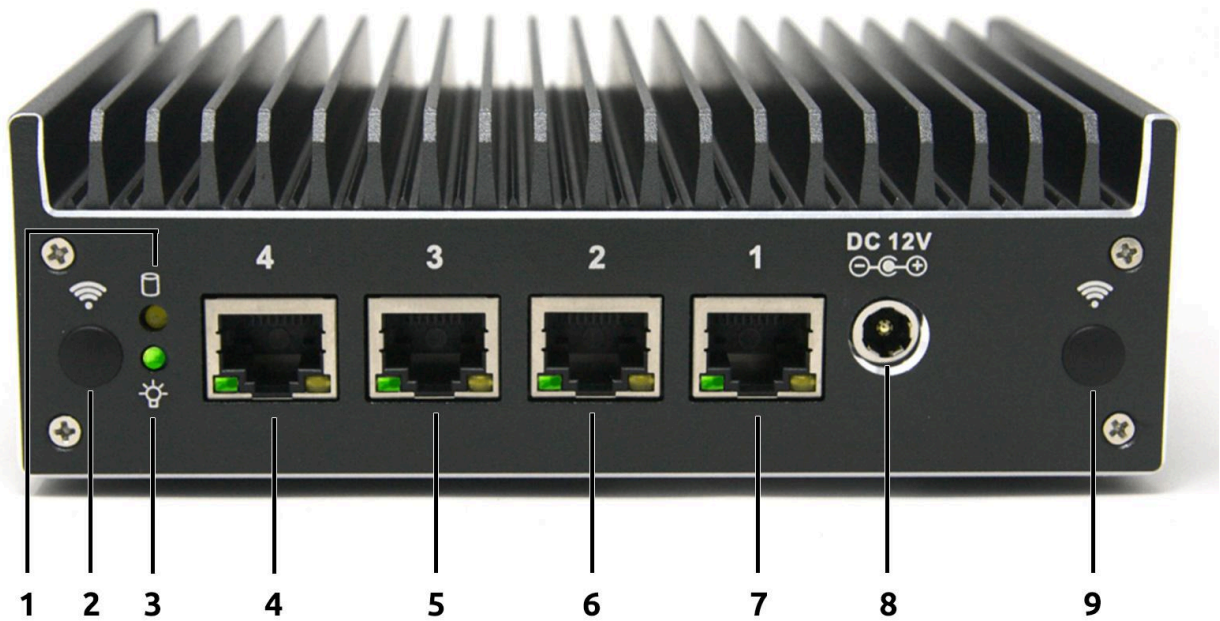
Specifications

Model	VP2410
Description	4X 1G Network Port Fanless Appliance
Processor	Intel J4125 (64 Bit, 2.0 GHz Base, 2.7 GHz Burst, 4M Smart Cache)
Processor Cores	4
Processor Threads	4
Intel AES-NI	Supported
Virtualization	Intel Vt-x, Vt-d
Network	4x Intel 1G Ethernet, RJ-45
Video / Graphics	Intel UHD Graphics 600, 1x HDMI 1.4, 1x DP 1.4
Audio	Audio over HDMI
Memory	1x SO-DIMM DDR4-2400, Max 16G
Storage	1x M.2 SATA, 1x 8G eMMC on board
Optional Storage	1x Internal 2.5" SATA 3.0 SSD
External I/O	4x RJ-45 Ethernet 2x USB 3.2 Gen 2 Type A 1x USB 3.2 Gen 2 Type C 1x USB Micro 2.0 (Console) 1x HDMI 1x Display Port 1x 4FF SIM Holder 6x WiFi Antenna Mounting Holes 1x 12V DC Power Jack
Internal I/O	1x M.2 2280-M for SATA 1x SATA Header, 1x SATA Power 1x M.2 2230 E-Key PCIe 3.0 x1 for WiFi 1x USB 2.0 Header 1x Trusted Platform Module Header (9 pin) 1x CMOS Reset (2 pin) 1x CPU Fan Header (4 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 24W
Chassis	Fanless, Aluminum, Gray
Chassis Dimensions	5.75 x 5 x 2 in, 146 x 127 x 50 mm
Mounting Options	Desktop, VESA Bracket, Optional 1RU Rack Mount
Weight	1 lb 10 oz, .75 Kg
Shipping Weight	3 lbs 4 oz, 1.47 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, RoHS
Country of Origin	Made in China, Assembled in USA, Canada, or Germany
Optional WiFi	1x M.2 2230 E-Key PCIe 802.11ac/a/b/g/n (PCIe)
Optional TPM	1x Trusted Platform Module, TPM 2.0

System Features

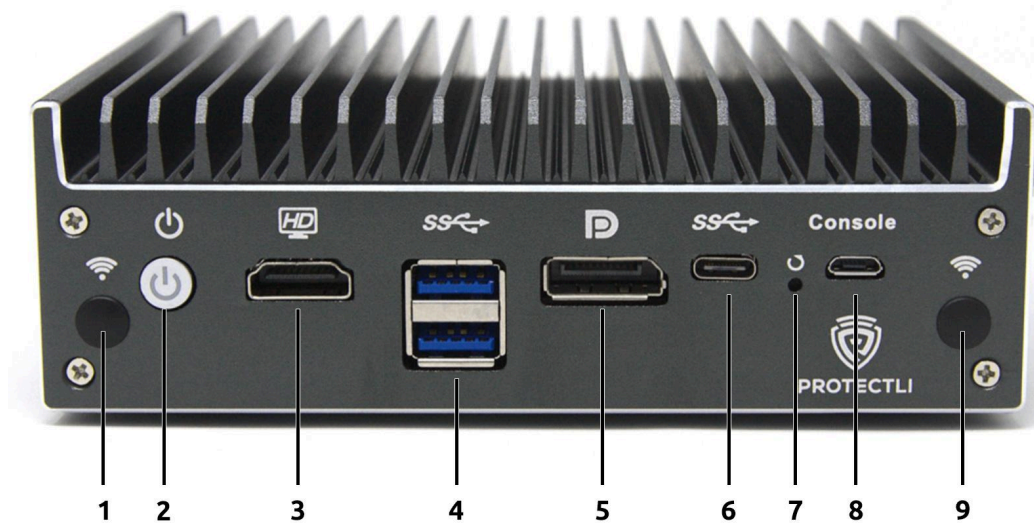
Front Features



Item #	Object	Description
1	HDD Activity LED	This amber LED will light up when data activity is detected on either the mSATA or SATA interfaces.
2, 9	Antenna Ports	Two antenna ports for adding radio antennas (such as WiFi). The ports are covered by plugs while not in use.
3	Power Indicator LED	This LED will stay solid green when the device is powered on.
4	Ethernet Port 4	The fourth 10/100/1000 Mbps Intel® i211 ethernet port.
5	Ethernet Port 3	The third 10/100/1000 Mbps Intel® i211 ethernet port.

6	Ethernet Port 2	The second 10/100/1000 Mbps Intel® i211 ethernet port.
7	Ethernet Port 1	The first 10/100/1000 Mbps Intel® i211 ethernet port.
8	Power Supply Connector	12V DC barrel connector for the 40W external power supply. Positive rail is the tip, negative is sleeve.

Rear Features



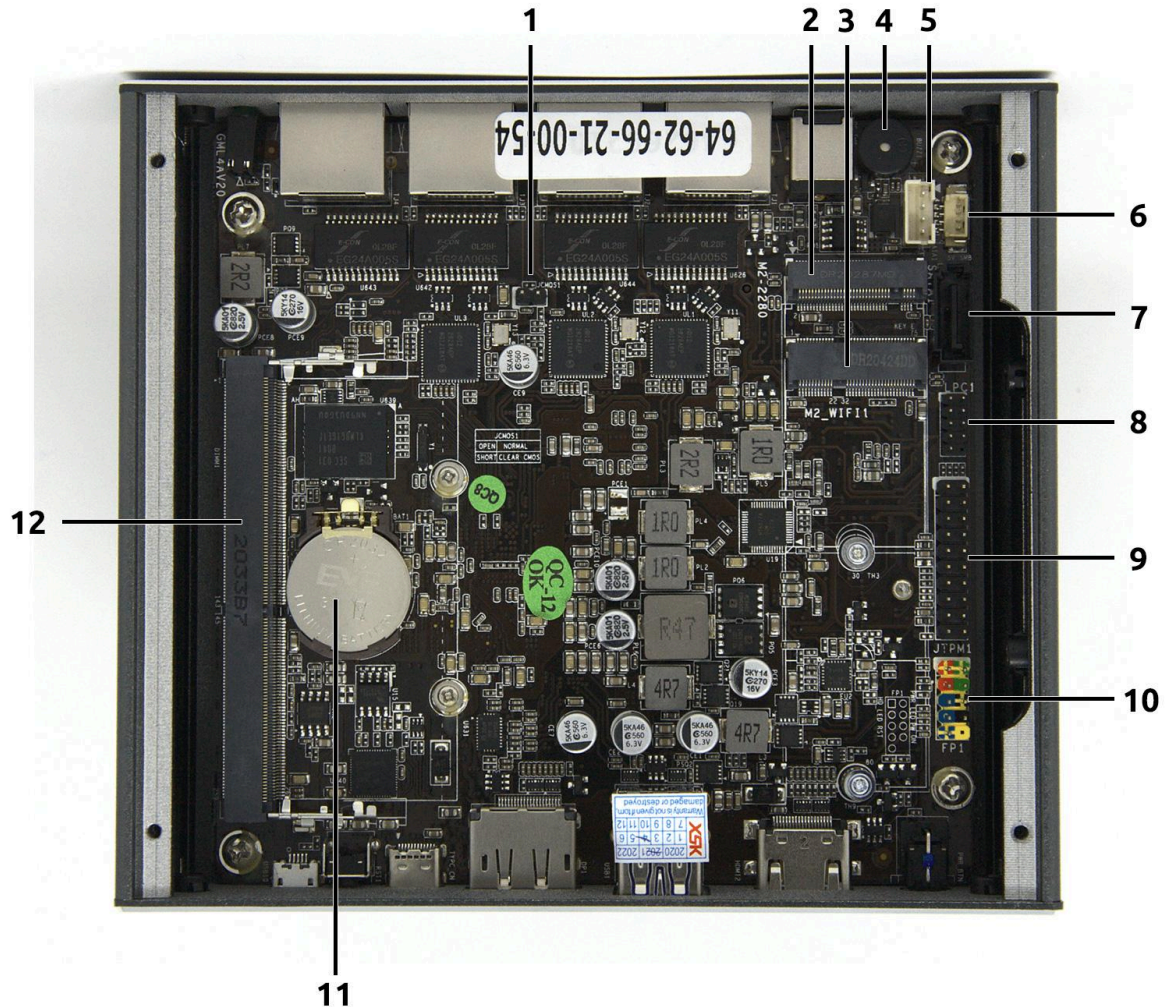
Item #	Object	Description
1, 9	Antenna Ports	Two antenna ports for adding radio antennas (such as WiFi). The ports are covered by plugs while not in use.
2	Power Button	Pressing the Power Button will power the unit on and illuminate with a blue LED. <i>In OSes configured to handle ACPI signals, pressing the power button initiates a shutdown.</i> <i>Pressing and holding the Power Button for 5 seconds will force the unit to power off.</i>

3	HDMI Connector	Video and audio output via HDMI.
4	Two USB3 Connectors	USB 3.2 Gen 2 Type-A connectors.
5	DisplayPort Connector	Video output via DisplayPort.
6	USB-C Connector	USB 3.2 Gen 2 Type-C connector.
7	Reset Button (Recessed)	A momentary switch exposed via GPIO. This is not an ACPI reset button, but a general purpose button that may be programmed in the guest OS.
8	Serial Console Port	RS232 serial communications via UART exposed through USB 2.0 Type B Micro connector. Default port settings: <ul style="list-style-type: none"> ● 115200 baud ● No parity ● 8 databits ● 1 stopbit

Right Features

Item #	Object	Description
1	Antenna Ports	Two antenna ports for adding radio antennas (such as WiFi). The ports are covered by plugs while not in use.

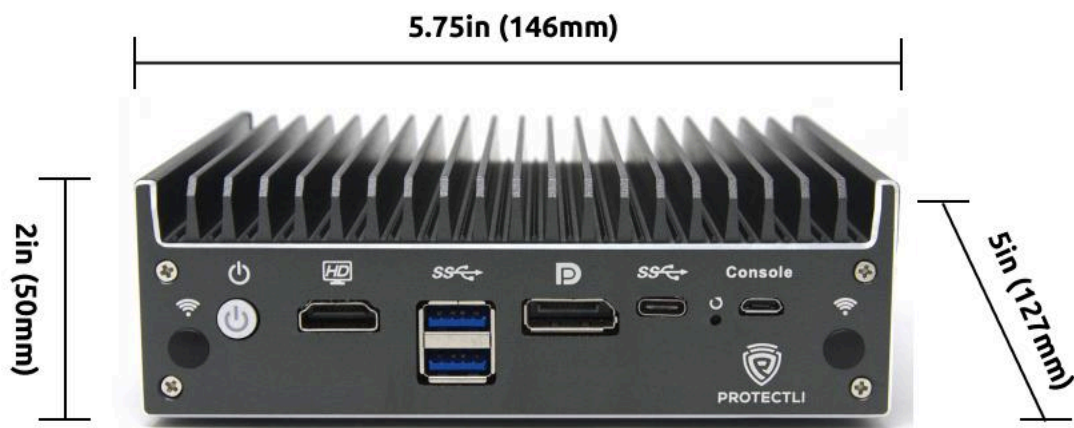
Motherboard Top View



Item #	Object	Label	Description
1	NVRAM Reset Jumper	JCMOS1	Shorting this jumper while the CMOS battery is connected will reset the BIOS NVRAM.
2	M.2 Storage Connector	M2_2280	Connector for an M.2 SATA storage device, such as an SSD. <i>Not compatible with NVMe storage technology.</i>
3	M.2 WiFi Expansion Slot	M2_WIFI1	Connector uses USB protocol over an M.2 connector. Designed for a Protectli WiFi device, but is not limited in its capabilities.
4	Buzzer	BUZZ1	PC Speaker.

5	SATA Power Connector	JSATA1	SATA power connector for additional storage.
6	Fan Header		Four-pin PicoBlade-compatible header for optional PWM CPU fan.
7	SATA Data Connector	SATA1	SATA III data connector. Recommended for additional storage, such as a 2.5" SATA SSD.
8	Legacy Device Low Pin Count Connector	LPC1	9-pin ISA-compatible connector for legacy devices (e.g. PS2 keyboard, etc.).
9	TPM Header	JTPM1	Trusted Platform Module header for TPM1.2 and TPM2.0 hardware devices.
10	Front Panel Header	FP1	Internal header for adding external device controls and indicators featured through the front panel, such as power button, reset button, activity LEDs, etc.
11	CMOS Battery	BAT1	3V CR2032.
12	Memory Slot	DIMM1	DDR4LP SODIMM.

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

2024-04-01

- Fix incorrectly stated chassis DC power connector (removed screw-in threading reference).

2023-08-31

- Fix incorrectly stated chassis color (black => gray).

2023-03-21

- Initial document