

# VT608 / Switching PDU with 8 outlets

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Documentation page: <https://vutlan.atlassian.net/wiki/spaces/DEN/pages/2313617561/VT608+Switching+PDU+with+8+outlets>

Product page: <https://vutlan.com/power-distribution-units/153-vt608-switched-ip-pdu.html>



"VT608 / Switched PDU with 8 outlets" + modem  
"VT700 / GSM modem" & "VT760 / LTE modem" are ordered separately



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## Function and purpose

The Switched Power Distribution Unit (PDU) is used for load management and allows to switch on/off or reboot up to 4 outlets.

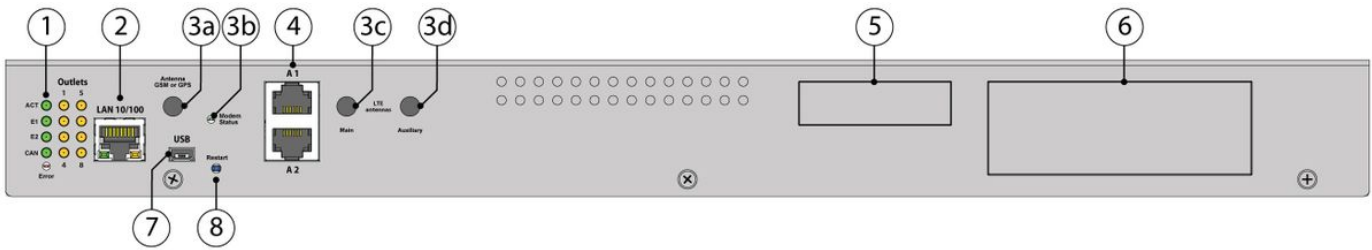
It has a built-in temperature sensor, can connect x2 additional analog sensors, x2 dry contact inputs, x2 12V controlled outputs for devices (e.g. alarm beacon or a relay contact) and a digital CAN port for connecting up to x20 sensors or extensions.

There are built-in servers and agents like HTTP, HTTPS, SNMP v1, 2c, 3, SMTP, Radius, Syslog, FTP, DHCP, and Watchdog.

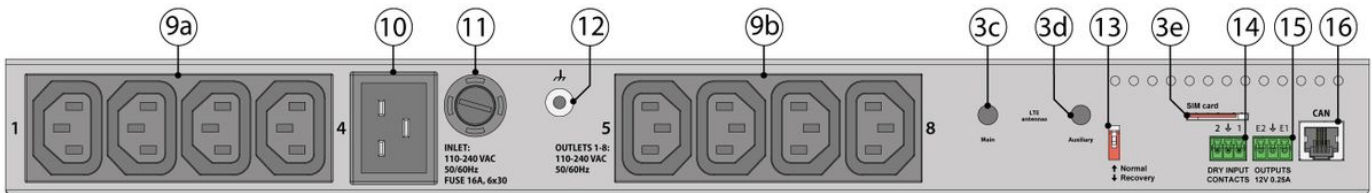
"VT700 / GSM modem" or "VT760 / LTE modem" can be integrated inside the system. Modems are purchased separately.

## Physical Description

Front panel:



**Back panel:**



1. "ACT / STATUS" - green - indicates appliance status

"LEDs: E1, E2" - status indicators for x2 12V 0.25A outputs at the back of the unit.

- The LED is ON (orange) - the output is ON (the initial state can be configured).
- The LED is OFF (orange) - the output is OFF ((the initial state can be configured).

"LED: CAN" - green LED indicates CAN bus status.

- The LED blinks slowly - nothing is connected
- The LED blinks fast - configuration is in process
- The LED glows constantly - connected to CAN devices

"ERROR» - red - indicates error and traffic.

- the operating mode of the device: If everything is normal, the LED is extinguished, if not - there's a constant glow;
- software update mode: switches at a rate of 2 times per second;

"OUTLETS 1 - 8" - orange - indicate outlet status.

2. "LAN port" - Ethernet 10/100 Base-T port, provides an Ethernet connection. Read more in this section "[LAN, GSM, LTE, RADIUS, DNS, SSL, VPN](#)".

- "Orange LED" - orange LED for Ethernet port. Shows network traffic.
- "Green LED" - green LED for Ethernet port. Shows network traffic. Flashes green when the system starts up. Shows the connection state (constant green light - the connection is established, blinking green - the connection attempt).

3. This is a slot for "[VT700 / GSM modem](#)" or "[VT760 / LTE modem](#)". Modems are purchased separately.


3a. "ANTENNA GSM or GPS" - connector, used when GSM modem is installed inside of the appliance to connect GSM antenna. (GSM modem is ordered separately). Or it is used for connecting a GPS antenna to "[VT760 / LTE modem](#)" for correct time detection. GPS antenna is not soled together with the modem.

3b. "Status" - displays modems status. Blinking = working.

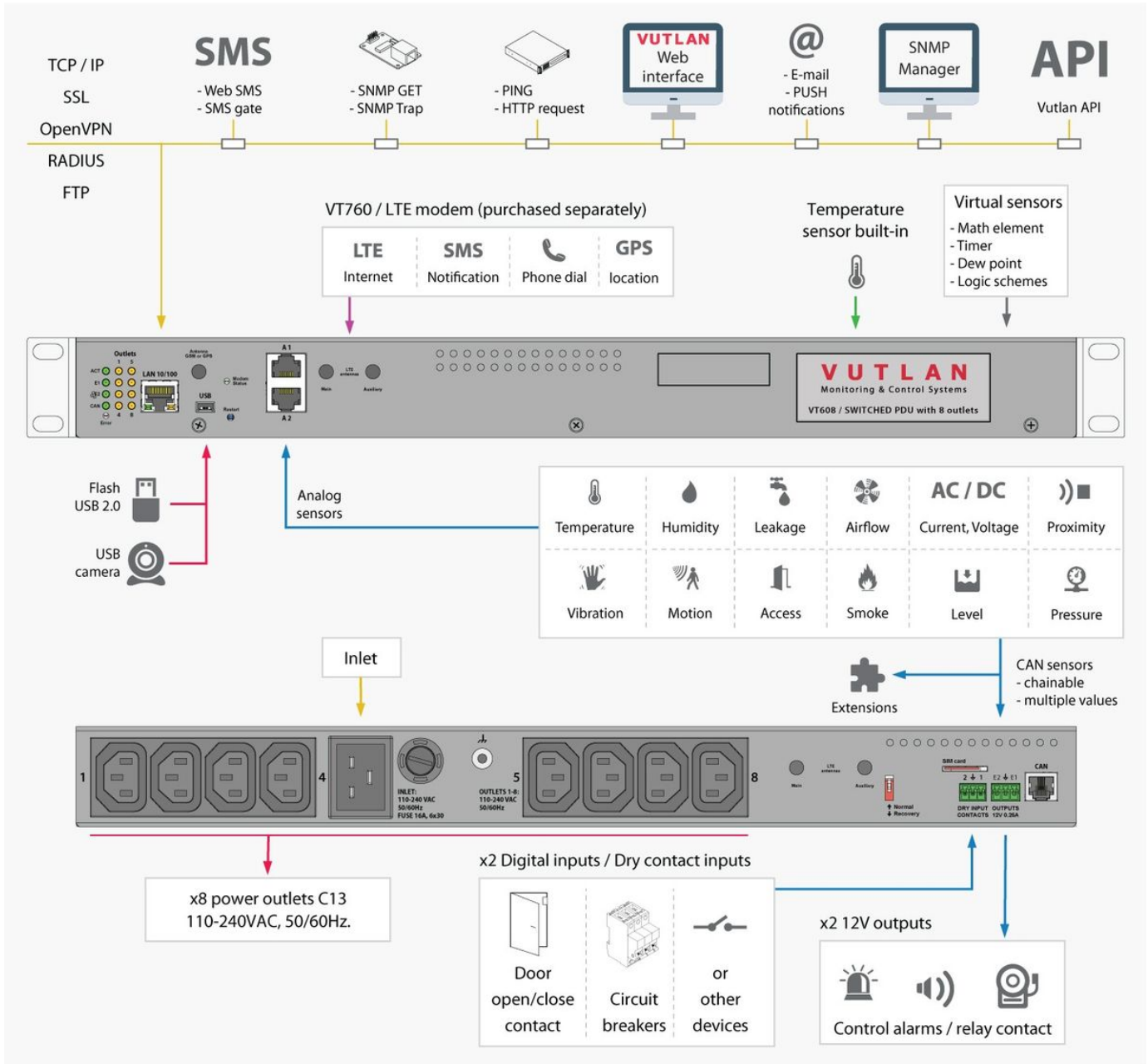
3c. "Main antenna" - Connector, used when the LTE modem is installed inside of the appliance to connect LTE main antenna. (The main antenna is supplied together with the modem).

3d. "Auxiliary" - Connector, used when the modem is installed inside of the appliance to connect LTE auxiliary antenna. The additional antenna helps to strengthen the signal level. (Auxiliary LTE antenna and antenna output are ordered separately from the modem).

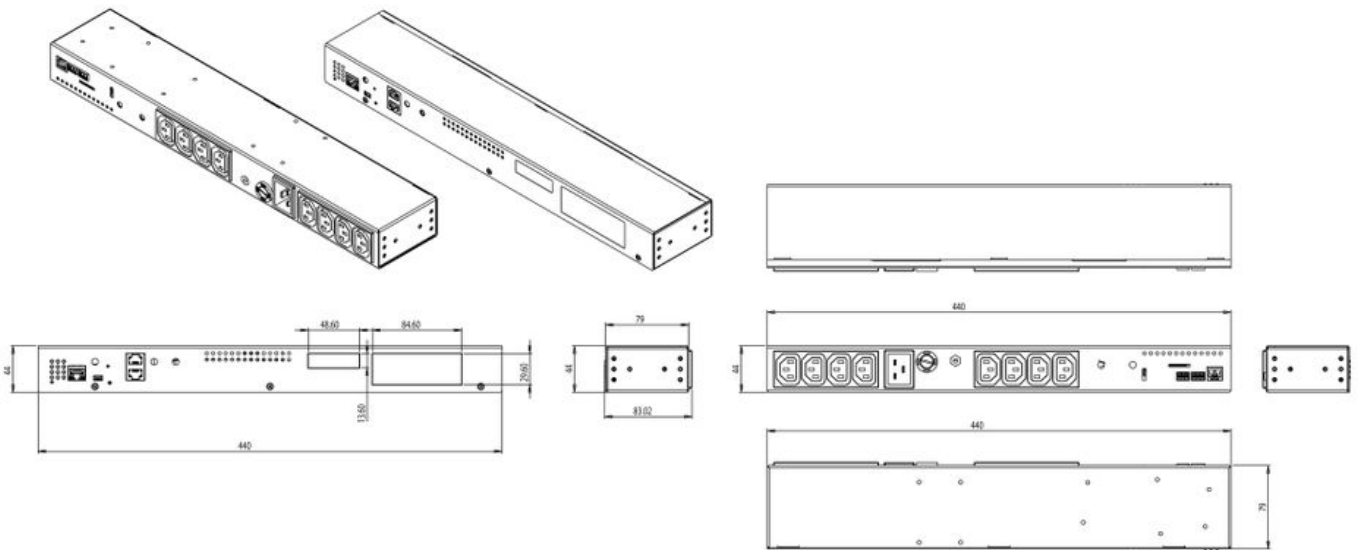
3e. "SIM card" - SIM card slot with an injector.

4. "**A1..A2**" - x2 RJ12 analog sensor inputs with auto-sensing. Read instructions at "[Analog sensors connection](#)", "[Sensor configuration](#)".
5. "**Sticker space**" - A place for a sticker, can be used by a user to place an identifier of the system (for example, an IP address).
6. "**Logo sticker**" - Displays article number of the monitoring unit.
7. "**USB**" - type miniAB USB-port 2.0. USB ports are needed for USB camera recording, USB Flash for system logs, and system restore. Read instructions at "[Connecting USB camera](#)", "[USB camera settings. How to save a video](#)", "[Saving system logs on USB flash drive](#)", "[USB upgrade or restore of default settings](#)".
8. "**RESTART**" - the button restarts the appliance. Hold the button for 2 seconds and then let go, the system will restart.
9. **Outlets "1-4", "5-8"** - x8 power outlets C13 110-240VAC 50/60Hz. Read instructions at: "[A relay switching \(NC NO\) / Outlets switching](#)".
10. "**INLET**" - 110-240VAC 50/60Hz
11. "**FUSE**" - Inlet fuse 16A 6x30mm
12. " " - Chassis grounding, M4 thread. Enhances the immunity of the equipment against conducted and radiated RF disturbances. Please contact a professional electrician before connecting it.
13. "**Dip switch**" - A switch controlling the operating mode of the system
  - Operating mode: Up >> Off - the system should be always switched to this model.
  - Recovery mode: Down >> On - use this option only in case you need to recover manufacturing settings. Read instructions at: "[Restore of appliance](#)".
14. "**DRY CONTACT INPUTS 1...2**" - x2 digital inputs (Type IN). Read instructions at "[Connecting dry contacts](#)", "[Dry contacts settings](#)".
15. "**OUTPUT 12V 0.25A**" - 12V 0.25A (for each output) terminals outputs (electronic relay). Read instructions at "[Connecting 12V devices to 12V outputs](#)".
16. "**CAN**" - digital connector RJ12 for the connection of CAN sensors and CAN extensions on a CAN bus, with auto-sensing. Modules can be chain together. Read instructions at "[CAN devises connection](#)", "[Setting up CAN](#)".

## Connection overview diagram






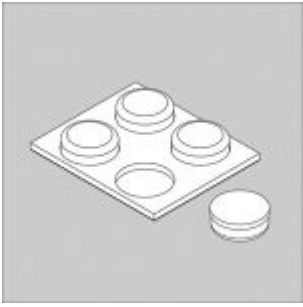
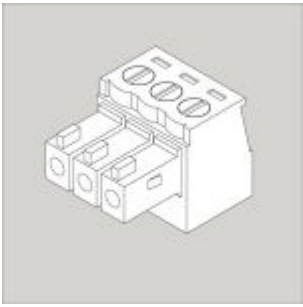
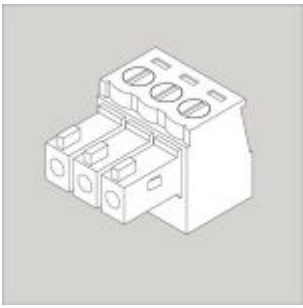

## Dimensions




## Inventory

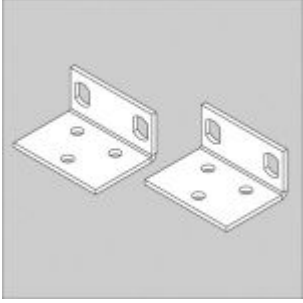
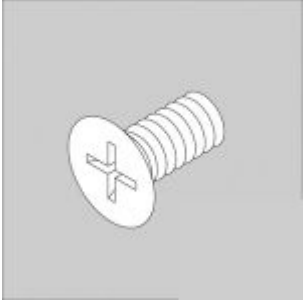
Make sure that the contents of the delivery meet the following configuration. Report a missing or damaged component to your supplier. If damage occurred during transportation, contact the appropriate delivery service.

	Package content	Description
1		Switchable PDU unit VT608.
2		EU Schuko C13 0.75 mm <sup>2</sup> 230V 10A cable.

3		RJ-45 1m patch cable
4		Self-adhesive rubber foot - 4 pcs
5		Terminal plug 3 pins, 3.81 mm - 1 pcs
6		Terminal plug 3 pins, 3.5 mm - 1 pcs
7		Configuration manual

8		Warranty card
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Transparent plastic bag 70x125mm:

	Package content	Description
1		19" rack brackets - 2 pcs
2		M3 x 8mm Phillips flat-head screws - x6 pcs (transparent plastic bag 42x70mm)

### Technical specifications

Device description	VT604	VT608
<b>Description:</b>	Switchable	Switchable
<b>Device management:</b> Web, SNMP, manual using SMS, 4G LTE	Yes	Yes
<b>Sensor access:</b> Three-level by login	Yes	Yes
Interface and supported protocols	VT604	VT608
<b>Interface:</b> Any browser	Yes	Yes
<b>LAN:</b> Ethernet 10/100 Mbit	Yes	Yes
<b>Network protocols:</b> DHCP, HTTP, HTTPS, SNMP, SMTP, SSL, FTP, Syslog, RADIUS	Yes	Yes
<b>OS:</b> Linux	3.10	3.10

<b>Memory:</b>	64Mb	64Mb
<b>CPU Speed:</b>	300 MHz	300 MHz
<b>Notifications:</b> FTP, Syslog, SMTP, SNMP, SMS (Modem ordered separately)	Yes	Yes
<b>Ping:</b> Built-in pinging	Yes	Yes
<b>LEDs:</b> System status, CAN, 12V outputs E1 and E2, System Error	4	8
<b>LEDs:</b> Orange for relays	4	8
<b>Clock:</b> Built-in clock with time synchronization	Yes	Yes
<b>Timer:</b> Built-in watchdog	Yes	Yes
<b>Power</b>		
	<b>VT604</b>	<b>VT608</b>
<b>Power supply:</b>	110-240V	110-240V
	50-60 Hz	50-60 Hz
<b>Input:</b>	C14 10A	C20 16A
<b>Fuse:</b>	10A	16A
<b>Outputs:</b>	4	8
<b>Power consumption:</b>	10W	
<b>Total power load:</b>	2.4 kW	
<b>Power measurement:</b>	No	No
<b>Outputs:</b> Bistable relays with indication on the front panel	4	8
<b>Inputs / Outputs</b>		
	<b>VT604</b>	<b>VT608</b>
<b>Mini USB AB:</b> USB 2.0 HS	Yes	Yes
<b>Sensors:</b> Analog sensors RJ12	2	2
<b>CAN bus:</b> RJ12 for connecting up to 12-20 CAN devices per bus. See " <a href="#">CAN devices connection</a> ".	1	1
<b>Bistable relays:</b> with indication on the front panel	x4 Max 10A	x8 Max 10A
<b>Sockets:</b>	4 IEC 320 C13	8 IEC 320 C13
<b>External memory</b>		
	<b>VT604</b>	<b>VT608</b>
<b>USB flash card slot:</b>	Yes	Yes
<b>Scalability (units are ordered separately)</b>		
	<b>VT604</b>	<b>VT608</b>
<b>Extension unit:</b> Allows increasing the number of sensors in the system.	CAN	CAN
<b>Modem:</b> Internal	GSM, LTE	GSM, LTE



Environment	VT604	VT608
Operating temperature: 0 to 60 °C	Yes	Yes
Storage temperature: -25 to 85 °C	Yes	Yes
Operating humidity: 0 to 90 %, non-condensing	Yes	Yes
Storage humidity: 0 to 95 %, non-condensing	Yes	Yes
Options	VT604	VT608
Installation:	19"	19"
Dimensions (L x W x H) in mm:	440*44*80	440*44*80
Weight:	1,3 kg	1,5 kg

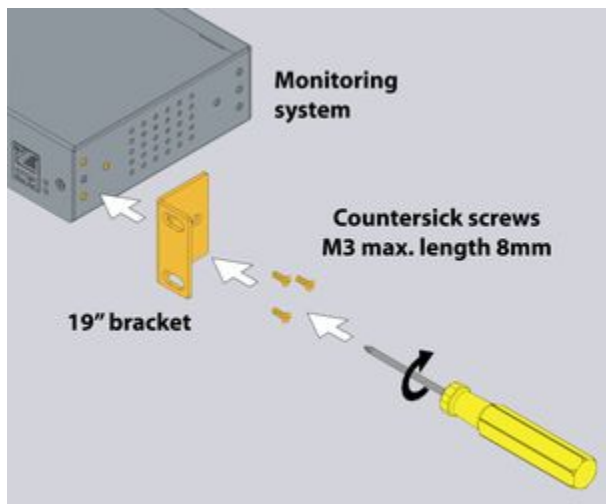
### Installing a modem

Please refer to the following articles:

"[VT700 / GSM modem](#)" or "[VT760 / LTE modem](#)" can be integrated inside the system. Modems are purchased separately.

### Installing the device into a 19" rack

Use x3 pcs of supplied screws (M3 6mm) for each bracket to fix it on each side of the enclosure as shown in the picture below. The screws and brackets are supplied with the unit.



### Device configuration

1. [Initial Configuration \(web interface\)](#)
2. [Configuring \(web interface\)](#)
3. [Upgrade and restore options](#)

Developer notes: Model v3.1, Published 12thMay2021