



VTM36 Instructions

Next Gen Smart Lighting

We're excited to have you on this journey with us and we're here for you every step of the way. Not only are we smart home owners ourselves, but we build all of our products alongside 1,000's of passionate community members. To see how the project came to life and how everyone contributed, please see Page 38 or visit: inov.li/tmcheryl. It's truly amazing working with people of all walks of life and even more humbling to see everyone's dedication to making some of the best smart home products.

Thank you so much for your trust in us and welcome to the next generation of smart lighting with Inovelli.

Eric H. - Founder/CEO

Eric M. - Founder/CTO

Two handwritten signatures in white ink. The signature on the left is a stylized, bold 'E' followed by a surname, likely Eric H. The signature on the right is a more fluid, cursive signature, likely Eric M.

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Navigating this Manual

We designed this manual as if we were installing the module ourselves. We suggest reviewing the full manual before beginning the installation process. There are four areas this manual covers:

1. Getting to know your module
2. Figuring out your wiring
3. Connecting to your hub/gateway
4. Configuring your module (optimize the settings)

As we continue to work with hub manufacturers, and improve our products. It may be necessary to periodically update this manual. You can always find the latest version of this manual by visiting: inov.li/vtm36

Quick Setup.

Quick Setup Notes

We get it, you're ready to go. No need to flip through the manual, you want the abridged version. **This section assumes you have your module wired correctly and the blue LED is lit up.**

It also assumes you know how to enter the Thread/Matter pairing mode on your hub/gateway (and have a Thread/Matter compatible hub/gateway).

To see which hubs are compatible, please visit: inov.li/vtm36hubs

While these instructions likely won't change, for the most up-to-date instructions, we recommend scanning the QR code to the right or to visit: inov.li/vtm36QS



Pairing / Resetting Your Module

Auto-Pairing: The module will automatically start pairing when power is restored. To indicate the module is in pairing mode, the LED Indicator (B) will pulse blue. If the LED Indicator (B) is not pulsing, press the pairing button (A) three (3) times. Start the Thread/Matter pairing process on the hub at any time. If successful, the LED Indicator (B) will flash green three (3) times.

If the module is unsuccessful in pairing, please hold down on the pairing button (A) for approximately 20 seconds until the LED Indicator (B) flashes/turns red. Let go and the LED Indicator (B) should start pulsing blue indicating the pairing process has started. If you have already closed off access to the module, please see page 28.



Getting to Know Your Module

Please use the next couple pages to get to know your smart module.

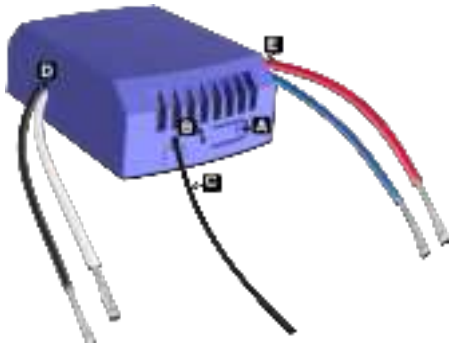
A. Pairing Button: Used to pair your module to your Thread/Matter Hub or to factory reset the module.

B. LED Indicator: Shows the various statuses of the module (ie: whether pairing mode was successful or not, whether the module was successfully removed or not, etc).

C. Thread Antenna: Used to communicate with your Thread/Matter enabled smart hub. Please ensure this is not covered by anything behind the canopy.

D. Line & Neutral Wires: The black wire is your line/load wire (used to power the device) whereas the white wire is your neutral wire.

E. Fan & Light Wires: The red wire is the fan motor wire whereas the blue wire is the light wire.



Quick Tap Sequences

You can skip this part if you have a hub. If you don't, then use this chart to put your module into On/Off or Dimming Mode (for lights) or Exhaust or Ceiling Fan Mode (for fans).

Mode	Sequence	Confirmation
On/Off	Hold Pairing Button for 5 seconds (until Yellow), then tap Pairing Button 3x	Red
Dimmer	Hold Pairing Button for 5 seconds (until Yellow), then tap Pairing Button 5x	Orange
Exhaust Fan (On/Off)	Hold Pairing Button for 5 seconds (until Yellow), then tap Pairing Button 7x	Red
Ceiling Fan (3-Speed)	Hold Pairing Button for 5 seconds (until Yellow), then tap Pairing Button 9x	Orange

Wiring.

Wiring Notes

Due to the number of ways these modules can be wired, all schematics are housed online and you can access the schematics by scanning the QR Code at the bottom right, or by visiting: inov.li/vtm36wiring

To work your way through this section, first read the warnings, then familiarize yourself with the vernacular used and then make your way to installing the actual module.

Finally, please do not attempt to install these modules if you are unfamiliar with electrical as serious injury can occur.



Safety Reminder

Consult a qualified electrician if necessary as **we are unable to give wiring advice outside of schematics.**

If you are unsure how electrical circuits work, please do not try installing this device. As exciting as it is to have a smart module installed, it can be dangerous and even life-threatening if you do not install it correctly. Improper installation will void the product's warranty.

Please read through the warnings on the next few pages before installing your module. We can't stress enough how dangerous installation can be if you don't know what you're doing.

Warnings

Caution - Please Read: This device (VTM36) is intended for installation in accordance with the National Electric Code and local regulations in the United States, or the Canadian Electrical Code and local regulations in Canada. If you are unsure or uncomfortable about performing this installation consult a qualified electrician. This product is made for indoor use only and is not designed or approved for use on power lines other than 120VAC, 60Hz, single phase. Attempting to use this VTM36 on non-approved power lines may have hazardous consequences.

Attention – Information importante: Cet appareil (VTM36) est conçu pour être installé conformément au « National Electric Code » et aux réglementations locales aux

États-Unis, ou au Code canadien de l'électricité et aux réglementations locales canadiennes. Si vous ne vous sentez pas à l'aise ou qualifiés pour effectuer cette installation, veuillez consulter un électricien qualifié. Ce produit est conçu pour une utilisation intérieure uniquement et n'est pas conçu ou approuvé pour une utilisation avec une ligne électrique ayant un voltage autre que 120 VCA, 60 Hz, monophasé. L'utilisation du VZM36 avec une ligne électrique non approuvée peut avoir des résultats dangereux.

Other Warnings: Risk of Fire, Electrical Shock & Burns

Autres avertissements: Risque d'incendie, de choc électrique et de brûlures

Warnings (Continued)

Recommended Installation Practices: Use only indoors or in an outdoor rated box. Turn off the circuit breaker. Installing this module with the power on will expose you to dangerous voltages. Connect only copper or copper-clad wire to the module.

To reduce the risk of overheating and possible damage to other equipment, use the VTM36 load outputs (red & blue wires) to control no more than indicated on Page 36.

Medical Equipment: Please do not use this module to control medical or life-sustaining equipment. Thread/Matter devices should never be used to control the on or off of medical and/or life-sustaining equipment.

To install your Fan Module (VTM36), you'll need to identify the following four wires:

- **Line:** Usually black and can also be called the, "hot" or "live" and carries 120VAC electricity into the electrical box
- **Neutral:** Usually white and is commonly daisy chained from box to box, usually appearing as a white wire bundle.
- **Fan (Motor):** Usually red and will come from your fan
- **Fan (Light):** Usually blue and will come from your fan
- **Ground:** Bare copper wire or metal fixture (if grounded)

If you are having difficulties identifying wires, please consult an electrician.

Warnings (Continued)

Pratiques d'installation recommandées : Utiliser uniquement à l'intérieur ou dans une boîte extérieure. Éteignez le disjoncteur. Installer ce module sous tension vous exposera à des tensions dangereuses. Connectez uniquement du fil de cuivre ou recouvert de cuivre au module.

Pour réduire le risque de surchauffe et de dommages possibles à d'autres équipements, utilisez les sorties de charge du VTM36 (fils rouge et bleu) pour contrôler pas plus que ce qui est indiqué à la page 36.

Équipement médical: Veuillez ne pas utiliser cet interrupteur pour contrôler de l'équipement médical ou nécessaire à la survie. Les appareils Thread/Matter ne doivent jamais être utilisés pour contrôler la marche or l'arrêt d'équipement médical et/ou

nécessaires à la survie. Pour installer votre module de ventilateur (VTM36), vous devrez identifier les quatre fils suivants :

- **Ligne** : généralement noire et peut également être appelée « chaud » ou « sous tension » et transporte l'électricité 120 VCA dans le boîtier électrique
- **Neutre** : généralement blanc et est généralement connecté en série d'une boîte à l'autre, apparaissant généralement sous la forme d'un faisceau de fils blancs.
- **Ventilateur (moteur)** : généralement rouge et viendra de votre ventilateur
- **Ventilateur (lumière)** : généralement bleu et viendra de votre ventilateur
- **Terre** : Fil de cuivre nu ou luminaire métallique (si mis à la terre)

Module Installation

The last step is to physically install your module. As noted in the beginning of this section, there are many different ways your module can be wired that if we posted them here, we'd have an encyclopedia of a manual, so all of our schematics are housed online and can be found here: inov.li/vtm36wiring



Hub/Gateway Setup.

Hub/Gateway Setup Notes

As manufacturers update their hub/gateway platforms, the setup process may change. We recommend checking our website for the latest directions, by scanning the relvant QR code.

If you don't see your hub, please go to: inov.li/vtm360T

Apple Home



[inov.li/
vtm36AH](https://inov.li/vtm36AH)

Google Home



[inov.li/
vtm36GH](https://inov.li/vtm36GH)

**Home
Assistant**



[inov.li/
vtm36HA](https://inov.li/vtm36HA)

Hubitat



[inov.li/
vtm36HE](https://inov.li/vtm36HE)

SmartThings



[inov.li/
vtm36ST](https://inov.li/vtm36ST)

Apple Home

COMPATIBLE HUBS: Any Thread enabled Apple product will work. To see a full list, please go to: inov.li/vtm36AHC. For more info, please go to: inov.li/vtm36AHPreqs). If you run into issues pairing, please perform a factory reset which is described on page 7 or 28.

- Open up your Apple Home App and click "+" at the top right
- In the drop-down, select, "Add Accessory"
- Scan the QR Code located at the bottom of the module
- Click on, "Add to Home" and Apple will start to add the device
- Apple will continue to add your Inovelli device and the LED Indicator will start to pulse blue -- if successful, the LED Indicator will flash green three (3) times
- Add your device to the location of your choosing and click, "Continue" -- feel free to rename your device
- Your module should be added to your home -- click, "Done"

Google Home

COMPATIBLE HUBS: Any Thread enabled Google product will work. To see a full list, please go to: inov.li/vtm36GHC. For more info, please go to: inov.li/vtm36GHPrereqs). If you run into issues pairing, please perform a factory reset which is described on page 7 or 28.

- Open the Google Home app and click on the devices icon
- Tap on the (+ Add) button and click, "Matter-enabled device"
- Scan the QR Code located at the bottom left of the switch
- Google Home should then add your module to the network

Hubitat

COMPATIBLE HUBS: Any Thread enabled border router will work. To see a full list, please go to: inov.li/vtm36TMBR. For more info, please go to: inov.li/vtm36HEPrereqs). If you run into issues pairing, please perform a factory reset which is described on page 7 or 28.

- Open the Hubitat web app and click on, "Devices"
- Click on, "+ Add Device" at the top right
- Click on, "Matter"
- Select your border router (Apple, Google, Amazon) and then enter in the 11 digit number underneath the QR Code found on the bottom of your module

SmartThings

COMPATIBLE HUBS: Any Thread and SmartThings enabled hub will work. To see a full list, please go to: inov.li/vtm36STC. For more info, please go to: inov.li/vtm36STPrereqs). Please note for full functionality, you will need to install the Inovelli SmartThings driver. Instructions can be found on the setup page: inov.li/vtm36ST. If you run into issues pairing, please perform a factory reset which is described on page 7 or 28.

- Open the SmartThings app and click on the devices icon
- Tap on the (+) button at the top and select, "Add Device"
- Click on, "Scan the QR Code" located at the bottom
- Scan the QR Code located on the bottom of your module
- SmartThings should add your device

Resetting Your Module

To reset your module, please follow the directions below:

- Start by cutting power to the canopy module (this can be done by either turning off the circuit breaker or by pulling the air-gap on your Inovelli switch if the module is connected to it)
- Turn the canopy module power back on for 2 seconds, then power off again for 2 seconds
- Repeat this pattern six (5) times
- To confirm the module has been reset, the Fan's light should flash

Alternatively, you can hold down on the Pairing Button (A) for 20 seconds until the LED Indicator (B) turns Red.

Advanced Features.

Advanced Features Notes

NOTE: The advanced features shown below are what is built into the module firmware, and may or may not be supported by your hub/gateway. We've confirmed they're supported on SmartThings, Hubitat, and Home Assistant.

These modules are packed with a ton of amazing features, which include smart bulb/fan mode, and approximately 45 different parameters to customize your module.

The manual does not have enough room to list out and explain all the parameters and advanced features. However, the following pages will direct you to the proper URL's. An overview can be found at the QR code to the right or at the following URL: inov.li/vtm36AF



Module Parameters

There are approximately 45 different parameters on this module, making it one of the most customizable modules out there.

Due to the space constraints in this manual, we had to list them all out on our website. You can access these parameters by scanning the QR Code or by visiting: inov.li/vtm36parameters

Placeholder for Parameters

Placeholder for Parameters

Other Advanced Features

To setup some of the other advanced features, such as: Smart Bulb/Fan Mode and Thread/Matter Binding, please see the URL's below as the instructions will be different depending on the hub you're using.

- **Smart Bulb Mode:** inov.li/vtm36SFM
- **Smart Fan Mode:** inov.li/vtm36SBM

Product & Contact Info.

Product & Contact Info Notes

As mentioned in the beginning of the manual, we're all smart home owners ourselves and have an amazing community of people who are eager to help and share their setups.

If you ever run into any issues, please do not hesitate to submit a ticket, or post in the community. We'd love to hear from you.

Community Link: inov.li/community

Submit a Ticket: inov.li/support (or scan the QR Code below)

Thanks again for your support and we look forward to helping you get the most out of our smart home!



FCC/IC Statements

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with

FCC/IC Statements (Cont.)

the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna, increase the separation between the equipment and receiver, connect the equipment into an outlet on a circuit different from that to which the receiver is connected or consult the dealer or an experienced radio/TV technician for help. This equipment should be installed and operated with minimum distance 8in (20cm) between the radiator and your body.

IC Caution: This device contains licence-exempt transmitter(s)/ receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions: 1) This device may not cause interference, and 2) This device must accept any interference, including interference that may cause undesired operation of the device.

DECLARATION DE CONFORMITE D'INDUSTRIE CANADA: L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : 1) L'appareil ne doit pas produire de brouillage; 2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Product Info

Name: Smart Fan/Light Module

SKU #: VTM36

Power: 120V AC, 60Hz

Signal (Frequency): 2.4GHz

Operating Temperature Range: 32-95° F (0-35° C)

Maximum Load (Fan): 1.2 Amps - No more than two identical fans to the module. Not to exceed 1.2A resistive load. AC Motors Only.

Maximum Load (Light): 300 Watts Incandescent, 150 Watts LED, and 100 Watts CFL

Range: Up to 100 meters line of sight between the Wireless Controller (HUB) and the closest Thread/Matter Repeater.

Certifications: ETL Listed, FCC/IC, Thread & Matter Certified

For indoor use. Specifications subject to change without notice due to continuing product improvement.

Company Info / Warranty

If you run into any issues, feel free to reach out to us at: contact@inovelli.com. We typically answer tickets within 24-48 hours and are staffed by actual smart home owners.

All Inovelli products come with a one (1) year warranty (defined as 365 days). This warranty protects you from breakdowns in the material or workmanship under normal use. This warranty is limited in a couple areas. Purchases must be made from Inovelli or an authorized reseller. The product should be used in the manner directed in the instructions. The product must only be used and/or installed in the United States or Canada.

For full warranty info, please visit: inov.li/warranty

Project Cheryl

The purpose of this project is to bring back our second most popular product which was the fan/light module. To this day, it's our #2 most searched for product on our site.

The name Cheryl was chosen to dedicate this to Eric H's mom, who passed away in 2019 from cancer. She was an incredible person who instilled her solid work ethic and a stubbornness to never give up.

In addition, the project's name is Cheryl because the goal is to have this pair directly to our button controller, which is named project Walt (after Eric H's dad who passed away in 2023) so they can always be paired together in homes as they are in heaven. To see the origin of this project, as well as the journey scan the code or visit: inov.li/tmcheryl



~~Sam~~ George Bill Craig Jacob

Eric Courtney Mark Dad 吳偉雄

王榮輝 ~~Sam~~ Brandon

Don M James

C. Leek Ray

唐忠清 Harold

Rohit ~~Sam~~

王宇坤

Corey

李榮

Shirley

Joan

Hambin

Rachel

Thank You.

imokelli