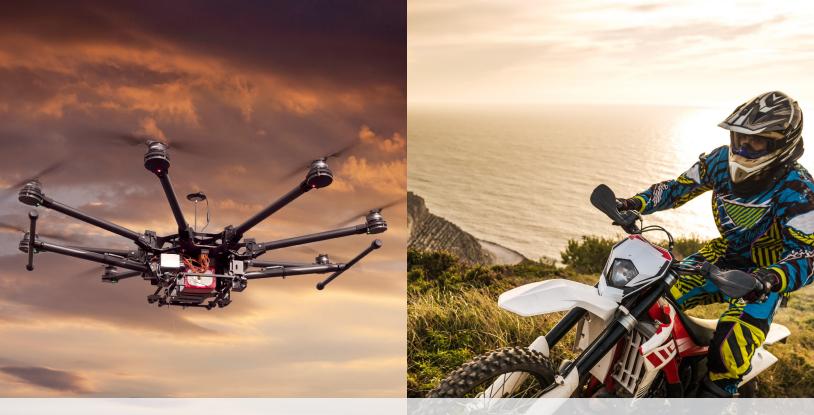


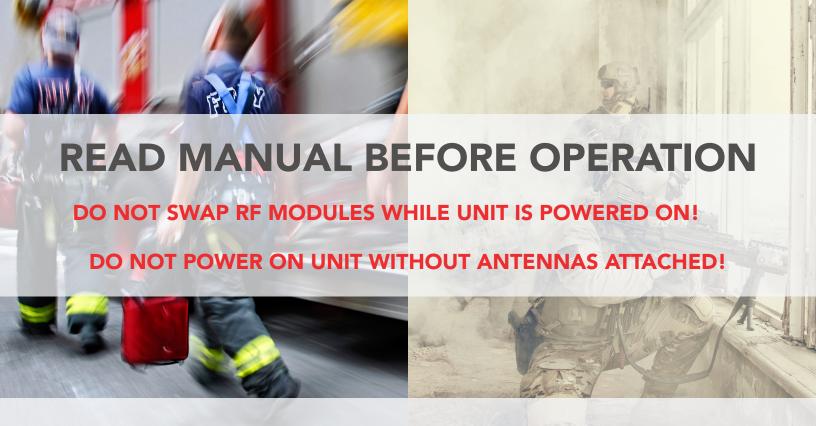


MPU5 BASIC OPERATOR MANUAL

VERSION 2.11



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PERSISTENT SYSTEMS

Headquartered in New York City since 2007, Persistent Systems LLC is a global communications technology company that develops, manufactures, and integrates a patented and secure Mobile Ad Hoc Networking (MANET) system: the Wave Relay® MANET. The company's industry-leading R&D team has designed wireless networking protocols to support their cutting edge Wave Relay® system and has designed leading-edge tactical networking devices that allow the Wave Relay® MANET to achieve its highest potential. The Wave Relay® MANET is capable of running real-time data, video, voice, and other applications under the most difficult and unpredictable conditions. Their suite of products is field proven and utilized in Commercial, Military, Government, Industrial, Agriculture, Mining, Oil and Gas, Robotics, and Unmanned System markets.

THE MPU5

The MPU5 is the Next Generation Wave Relay® platform. Leveraging multiple leading edge technologies such as MIMO and Android™, the MPU5 is a tactical networking device that delivers increased performance, reliability, and capability to the end user in a small, cost-efficient package. Stream multiple HD Video feeds, run commercial and custom apps, view situational awareness, and communicate with high quality audio all with a single device and a minimal number of accessories.

WAVE RELAY® MANET

The Wave Relay® MANET is a peer-to-peer wireless MANET networking solution in which there is no master node. If any device fails, the rest of the devices continue to communicate using any remaining connectivity. By eliminating master nodes, gateways, access points, and central coordinators from the design, the Wave Relay® MANET delivers high levels of fault tolerance regardless of which nodes might fail. The network is designed to maximize the capacity of the radio frequency (RF) spectrum and to minimize the network overhead. While optimizing efficiency, the Wave Relay® MANET also implements techniques that increase multicast reliability. The advanced multicast functionality allows the system to support both multicast voice and video over IP.

The Wave Relay® MANET is designed to maintain high bandwidth connectivity among devices that are on the move. The system is scalable, enabling it to incorporate unlimited meshed devices into the wireless network, where the devices themselves form the communication infrastructure. Even in highly dynamic environments, the system is able to maintain connectivity by rapidly re-routing data as necessary. The Wave Relay® MANET is a self-forming and self-healing network where nodes can move freely within the network. Critical information flows reliably throughout the network while individual data paths are able to adapt at sub-second intervals. This unique approach creates an ideal environment for maximizing performance across the available communications medium. Customers leverage the Wave Relay® MANET's straightforward and effective architecture to enable a true "Plug and Play" capability. Deploying a Wave Relay® MANET is as simple as connecting a standard Ethernet cable; customers are immediately connected to everything on the network.

CONTACT PERSISTENT SYSTEMS

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A WARNING

Read and understand operator's manual and all other safety instructions before using this equipment.

Lire et comprendre les consignes de sécurité d'emploi et tout de l'opérateur avant d'utiliser cet équipement

SAFETY WARNINGS

Handle Safely:



- Falling while installing or removing equipment can cause serious injury.
- ▶ If installing on a tower or any other tall locations, use proper lifting techniques and wear proper protective equipment.
- ► Tomber lors de l'installation ou de retirer l'équipment peut causer des blessures graves.
- Si vous installez sur une tour ou d'autres endroits de hauteur, utiliser des techniques de levage appropriées et porter un équipment de protection approprié.

Electrical Shock and Fires:



RF Exposure:



- ▶ Understand and follow all local codes and regulations when installing electrical equipment.
- Only use approved battery and/or power supplies.
- Comprendre et respecter tous les codes et règlements locaux lors de l'installation des équipements électriques.
- Utilisez uniquement la batterie et les alimentations ou approuvé.
- Prevent injury from exposure to high frequency fields.
- See antenna separation instructions in the Compliance section of this manual.
- ▶ Do not operate with antenna removed. This can increase RF exposure risks and/or damage the equipment.
- Prévenir les blessures d l'exposition aux champs de haute fréquence.
- Voir les instructions de séparation de l'antenne dans la section de la conformité de ce manuel.
- Ne pas faire fonctionner avec antenne enlevé. Cela peut augmenter les risques d'exposition aux radiofréquences et ou endommager l'équipement.

CAUTION DEVICE UTILIZES LITHIUM ION BATTERY RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS

MISE EN GARDE

Dispositif utilise la batterie lon Lithium
RISQUE D'EXPLOSION SI LA BATTERIE EST REMPLACE PAR UN TYPE INCORRECT.

Jetez les piles usagées selon
LES INSTRUCTIONS

Lithium Batteries Handling

- Lithium ion batteries are defined as Class 9 dangerous goods by the IATA Dangerous Goods Regulations.
- Handle with care.
- Do not use if package is damaged it can cause fire.

Disposing of Used Batteries

▶ Disposal should be done in accordance with applicable regulations, which vary from country to country as well as by state and local governments. In most countries, trashing of used batteries is forbidden and disposal can be done through non-profit organizations mandated by local au-

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thorities or organized by professionals.

Incineration of lithium cells and batteries by consumers is not recommended. Incineration should be done at a properly permitted facility that can handle this waste.

Manipulation des batteries lithium

- Les batteries au lithium-ion sont définis comme Classe 9 marchandises dangereuses par le Réglement sur les marchandises dangereuses de l'IATA.
- Manipuler avec soin.
- Ne pas utiliser si l'emballage est dommage, il peut provoquer un incendie.

Mise au rebut des batteries usagées

- L'élimination doit être effectuée conformément aux réglementations applicables, qui varient d'un pays à l'autre ainsi que par les gouvernements d'État et locaux. Dans la plupart des pays saccage des batteries usagées est interdit et l'élimination peut être fair par les organisations à but non lucratif mandatés par les autorités locales ou organisées par des professionnels.
- Incinération des dellules et batteries au lithium par les consommateurs est déconseillée. Incinération devrait être fait dans une installation dûment autorisée qui peut gérer ces déchets.

See Attached Battery Spec Sheet, MSDS, and compliance document for more information

SUGGESTED ADDITIONAL HARDWARE

Suggested Additional Hardware

- ▶ #1 Phillips Head Screwdriver: Used to attach/detach RF module
- ▶ TPI Kit: Allows for antenna and RF cable matching
- ▶ RF cable at various lengths (LMR-400): Allows for flexibility in antenna setup
- Ethernet Cables
- Ethernet Female-to-Female Extenders
- ► HD Screen or TV with HDMI input: Displays Android™ computer interface and/or streaming video
- ▶ Laptop with Administrator Access: Used for device configuration
- ▶ USB Thumb Drives: Used for software configuration storage and loading

Part I: Physical Setup Section A: RF Setup



What Will I Learn?

- How to insert RF modules into the MPU5 chassis
- How to attach antennas to the MPU5

M PHYSICAL SETUP: RF SETUP



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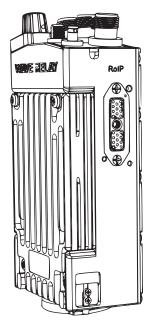
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- **WARNING!:** User **MUST** refer to the **Professional Installer Compliance** Section of this manual for approved antenna types. This warning applies only to RF-2100 with the FCC ID 2AG3J-RF2100, RF-5100 with the FCC ID 2AG3J-RF5100, and RF-2150 with the FCC ID 2AG3J-RF2150.
- How do I tell if my antennas and RF modules are compatible?
 - 1 Find the part numbers on the antennas. Antenna part numbers are on a sticker wrapped around the base of the antenna.
 - 2 Find the part number on the RF module. The RF module part number is on a sticker on the back of the RF module.
 - 3 Each part number will begin with ANT- (antennas) or RF- (RF modules) followed by four (4) digits. The first digit references the RF band of the part. Make sure that the first digit of the antennas and RF module match.
- **WARNING!:** DO NOT use mismatched antennas and RF modules. This configuration will result in very poor performance and/or damage to the device. If you do not have matching antennas and RF modules, contact Persistent Systems.
- **WARNING!:** DO NOT switch RF modules while device is powered on. Power off device before changing RF modules.
- **WARNING!:** the MPU5 is not IP68 rated when the RF module is not attached. Ensure you are in a dry, dust-free environment before changing RF modules.

M PHYSICAL SETUP: RF SETUP

Inserting the RF Module

- If there are rubber caps on the RF module contacts, **remove** them.
- **Align** the RF module with the chassis.
- WAVE RELAY
- Apply even force and press the RF module into the chassis.

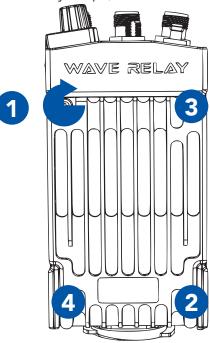


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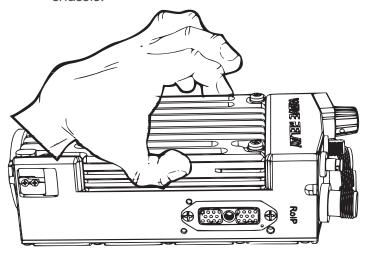
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PHYSICAL SETUP: RF SETUP @

Tighten screws clockwise in **diagonal** order with a #1 Phillips Head screwdriver until they stop (min. **4 in-lbs.** of torque)

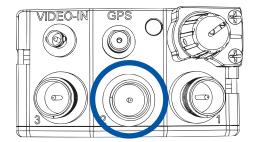


Pull on the RF module to verify that it is attached securely. Ensure there are no gaps in between the RF module and the MPU5 chassis.



Connecting Antennas

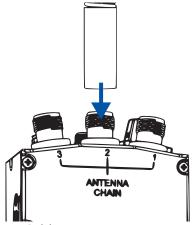
Start with the **middle** antenna port.

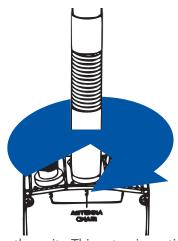


Align the RF connector on the antenna with the RF connector on the unit.



Twist the antenna clockwise until it is fully mated.







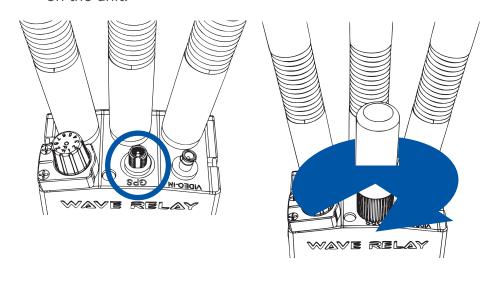
- You can use a TPI Kit and/or extra LMR-400 RF Cables to remote antennas away from the unit. This setup is particularly useful for mounted or operations center configurations.
- ▶ To operate in SISO mode, you only need to attach an antenna to the antenna port for the chain you want to use.
- **WARNING!**: if you want to operate in SISO mode, unused antenna chains MUST be turned off (See p. 78).

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PHYSICAL SETUP: RF SETUP @

- Repeat **Steps 1 3** for the remaining two RF antennas.
- Align the SMA connector on the unit.
- **Twist** the antenna clockwise until it is fully mated.



M PHYSICAL SETUP: RF SETUP TROUBLESHOOTING

How do I ensure that the RF module is aligned properly?

> The three RF connectors on the RF module will align with the three RF connectors on the chassis. When aligned properly, the engraved writing on the RF module will be facing the same direction as the writing on the chassis.

- What do I do if the antennas won't screw onto the RF connectors?
 - Ensure that you are using antennas with RP-TNC Male connectors or an appropriate adapter from your TPI kit.
 - Ensure that the connectors on both the unit and antennas are not damaged.
 - Ensure that there are no foreign objects in any of the connectors.

- What do I do if the RF module won't insert into the chassis?
 - Ensure that the RF module is aligned properly.
 - Ensure that the connectors on the RF module are not bent.
 - Ensure that there are no foreign objects in any of the connectors, on the bottom of the RF module, or in the chassis well
- How do I tell if the antennas are connected properly?
- When an antenna is mated properly, the threads on the connector will not be visible. However, there may be a small space between the antenna and the chassis



What Can I Do Now?

- Swap RF modules and antennas to change the RF band you are capable of operating on
- Swap out broken RF modules and antennas
- Setup hardware to receive GPS connectivity
- Remote antennas away from the unit

SOURCE POWER

Section B: Power



What Will I Learn?

- ▶ How to connect a power source to the MPU5
- How to power on the MPU5
- How can I use my old power accessories from previous Wave Relay products with my MPU5?

You can use your MPU4 twist locking battery pack or BB batteries with the MPU5. You CANNOT use old battery eliminators with the MPU5. Use only **CBL-PWR-0001** or **CBL-PWR-0002**. You CANNOT power the MPU5 via Power over Ethernet (PoE).

Will I lose all my settings if I remove power from my MPU5?

The MPU5 will retain settings if power is removed.

PHYSICAL SETUP: POWER \$



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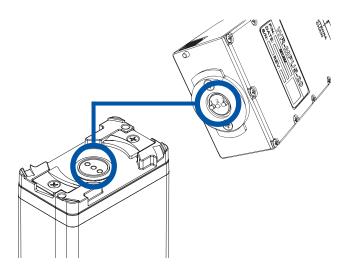
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M PHYSICAL SETUP: POWER

Connecting Power

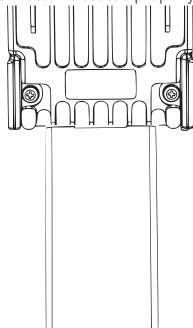
- If you are using a battery, make sure that the battery is charged.
- Align the circular three pin connector on the power source with the circular three pin connector on the bottom of the MPU5.



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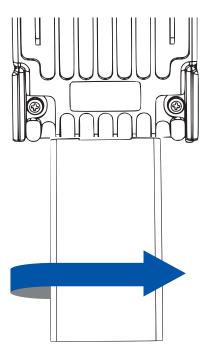
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Push the connectors together. Make sure the connector is seated properly.



PHYSICAL SETUP: POWER &

Twist clockwise 90°. You will hear a click when it is locked.



If you are using a Wall Battery Eliminator, plug the **standard wall plug** into a **standard wall outlet**.



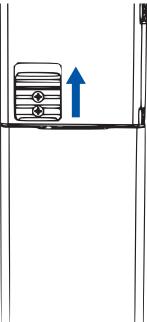
If you are using a BB Battery Eliminator, plug the **BB plug** into a **BB Battery**.



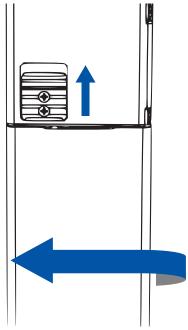
M PHYSICAL SETUP: POWER

Removing Power

Slide up the battery latch on the side of the MPU5.



Twist the **battery** counterclockwise until it disconnects.



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- What do I do if my power accessory will not fit the battery connector?
 - 1 Ensure that no parts (pins, plates, etc.) on either connector are bent or damaged.
 - Ensure that there are no foreign objects in either connector.

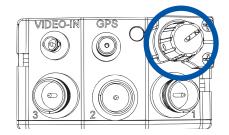
- What do I do if my power accessory will not lock?
 - 1 Ensure that the battery latch moves freely by sliding it up and down.
 - 2 Ensure that the battery latch is not stuck in the unlocked position.

M PHYSICAL SETUP: POWER

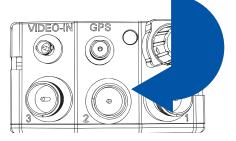
Powering On the Unit

- 1 Ensure that **antennas**, a **RF module**, and an appropriate **power source** are connected.
- **WARNING!:** Antennas **MUST** be installed prior to powering on the unit.

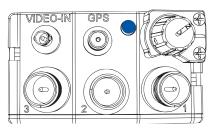
Locate the **Power Knob** on the top of the unit.



3 Twist the Power Knob clockwise 1 click.



If the unit is powered and has turned on, the **LED** on the top of the unit will glow a color indicating unit status.



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Quick Reference:

LED Color Unit Status

Blue Booting

Yellow Running, no neighbors

Green Running, neighbors

Red Crypto Fail (No key or FIPS)

Orange Low Battery

Purple Loading Firmware

- What do I do if my Power Knob does not rotate?
 - 1 Make sure that you are twisting it in the correct direction (clockwise).
 - Make sure that no foreign objects are blocking the rotation of the knob.
 - 3 If the knob still does not rotate, it may be broken. Contact Persistent Systems Support.

- What do I do if the Power Knob does not click when I twist it?
 - 1 The Power Knob may be broken. Contact Persistent Systems Support.
 - 2 Ensure that the battery latch is not stuck in the unlocked position.

MATERIAL SETUP: SIDE CONNECTORS



What Can I Do Now?

- Provide power to an MPU5 via a battery or standard wall socket
- Power on/off the unit
- Replace dead batteries

Section C: Side Connector Cables

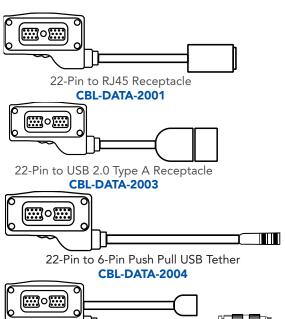


What Will I Learn?

How to connect a cable to the MPU5 side connectors

PHYSICAL SETUP: SIDE CONNECTORS @











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00000 D

22-Pin to Audio and Video Out

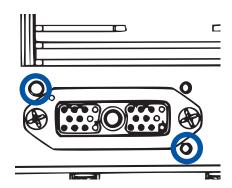
CBL-DATA-3002

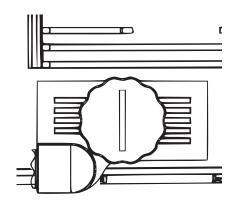
SPHYSICAL SETUP: SIDE CONNECTORS

Connecting a Cable to a Side Connector

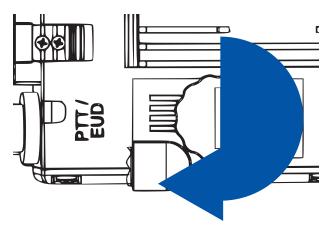
- The 22-Pin connector on every cable is keyed so that it will **only** attach to a compatible side connector. If a cable can attach to multiple side connectors, it is keyed (or not keyed) so that it will attach to all compatible side connectors.

- To connect a cable to a side connector, **locate** the appropriate side connector.
- Align the key pins on the 22-Pin connector with the key holes on the case. Push the key pins into the key holes.









Ensure that the cable is firmly attached and the connector is sitting flush with the case.

What do I do if the cable won't mate with the side connector?

- 1 Ensure that you are trying to connect the cable to the correct side connector.
- 2 Ensure that you are aligning the key pin properly and the cable is not upside down.
- 3 Ensure that no parts of the thumbscrew and the side connector are bent or damaged.
- 4 Ensure that there are no foreign objects in the thumbscrew or side connector.
- 5 Ensure that the cable connector is flush with the case.

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M PHYSICAL SETUP: SIDE CONNECTORS

Quick Reference:

Part Number	Description	Side Connector(s)	Uses
CBL-DATA-2001	22-Pin to RJ45 Receptacle	DATA	Connects to a standard RJ45 Ethernet cable. Use this cable to connect the unit to a computer for configuration.
CBL-DATA-2003	22-Pin to USB 2.0 Type A Female	PTT/EUD, DATA, RoIP	Connects USB accessories via a standard USB A port.
CBL-DATA-2004	22-Pin to 6-Pin Push Pull Android™ USB	PTT/EUD, DATA, RoIP	Connects an Android™ EUD or Screen
CBL-DATA-2005	22-Pin to DB9 Serial Socket	PTT/EUD, DATA, RoIP	Connects serial devices via a DB9 socket
CBL-DATA-2007	22-Pin to RJ45 Receptacle and USB 2.0 Type A Male	DATA	Connects to USB devices via a standard USB A plug and to a standard RJ45 Ethernet cable
CBL-DATA-2009	22-Pin to RJ45 Flying Leads	DATA	Flying leads for custom Ethernet integration (72")
CBL-DATA-2010	22-Pin to RJ45 Flying Leads	DATA	Flying leads for custom Ethernet integration (18")
CBL-DATA-3002	22-Pin to Audio and Video Out	PTT/EUD	Connects to a standard HDMI cable to display video on a TV or Monitor and connects to a speaker box or headset.
CBL-AUD-0001	22-Pin to U-329	RoIP	Connect the unit to a Legacy Radio via a U-329 connector.

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CBL-AUD-0002	22-Pin to U-328	PTT/EUD	Connects to a headset via a U-328 connector.
CBL-AUD-0007	22-Pin to Audio and USB 2.0 Type A Female	PTT/EUD	Connects USB accessories via a standard USB A port and an audio accessory via a U-328 connector
CBL-AUD-2009	22-Pin to Audio and 6-Pin Push Pull Android™ USB	PTT/EUD	Connects an Android™ EUD or Screen and an audio accessory via a U-328 connector

Refer to the MPU5 Product Catalog for more information on MPU5 cables. If you still have questions, contact Persistent Systems.



What Can I Do Now?

- Identify which cable you need for your configuration
- Identify which side connector your cables attach to
- Connect a cable to a side connector

NO NDA REQUIRED

Part II: Software Setup Section A: Configuring the Management Computer



▶ How to configure your computer to be able to communicate with an MPU5





Management Computer with Administrator Access & Ethernet Port



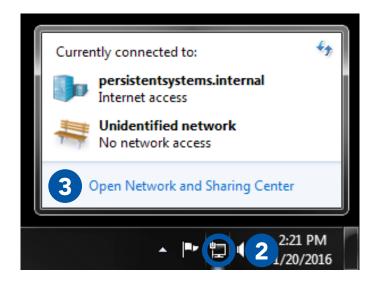
IMPORTANT INFORMATION!:

- ► To communicate with an MPU5, the computer must have an IP address in the same subnet mask as the MPU5's IP address.
- ► For example, with a subnet mask of 255.255.255.0, the computer and MPU5 will be able to communicate if they share the same first three numbers in their respective IP addresses (e.g. 10.3.1.10 and 10.3.1.254).
- ▶ If the computer and MPU5 do not share a subnet mask, the computer and MPU5 will not be able to communicate.
- ▶ If either the computer or MPU5 do not have an IP address in the same subnet mask, the computer and MPU5 device will not be able to communicate.

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Configuring the Management Computer (Windows)

- Locate the **Network** icon at the bottom right of the taskbar.
- Right click the **Network** icon.
- Click Open Network and Sharing Center.

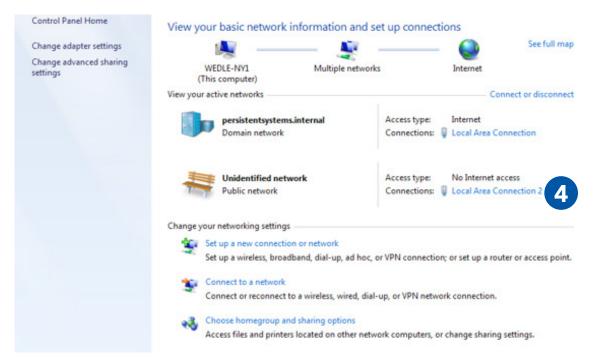


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Click Local Area Connection 2.

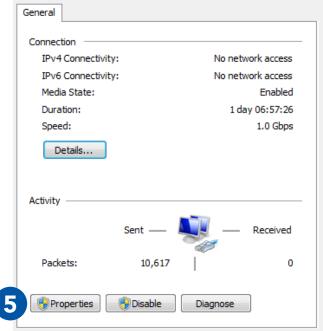


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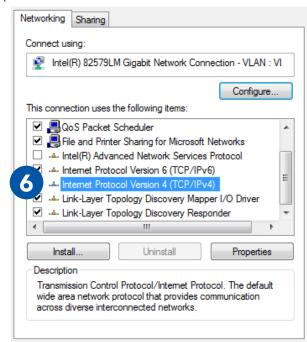




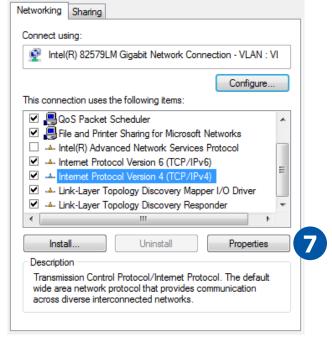
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Select Internet Protocol Version 4 (TCP/IPv4) and ensure that it is highlighted as pictured.



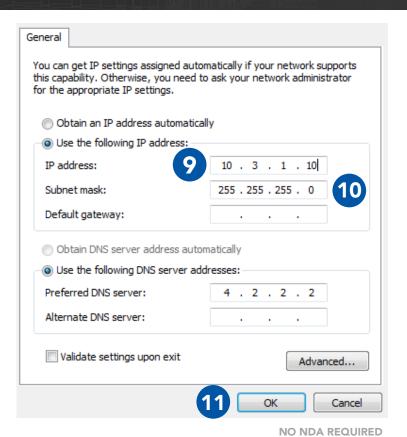
7 Click Properties.



8 Click Use the following IP address.

	General				
	You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.				
	Obtain an IP address automatically				
8					
	IP address:	10 . 3 . 1 . 10			
	Subnet mask:	255 . 255 . 255 . 0			
	Default gateway:				
Obtain DNS server address automatically					
	Use the following DNS server add	resses:			
	Preferred DNS server:	4 . 2 . 2 . 2			
	Alternate DNS server:				
	Validate settings upon exit	Advanced			
		OK Cancel			

- 9 Enter 10.3.1.10 into the IP address field.
- Enter 255.255.255.0 into the Subnet mask field.
- 11 Click OK.





Your computer is now properly configured to connect to the MPU5.

Configuring the Management Computer (Linux)

- 1 Open the command line.
- Type: sudo ifconfig eth0 10.4.1.10/24
- Type: sudo ip addr add 10.3.1.10/24 dev eth0

What Can I Do Now?

- ► Configure computers to be able to communicate with Wave Relay® devices.
- ► Have a computer that is able to configure a Wave Relay® device.

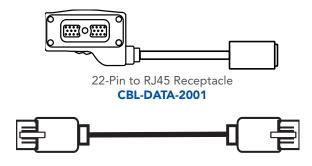
Section B: Connecting the MPU5 to the Management Computer



What Will I Learn?

▶ How to physically connect the MPU5 to the Management Computer

Parts List



Standard RJ45 Ethernet Cable



Properly Configured Management Computer with Ethernet Port

- Connect **CBL-DATA-2001** to the **DATA** side connector on the MPU5.
 - ATA DATA
- Plug one end of the standard RJ45 Ethernet cable into the **Ethernet receptacle** on **CBL-DATA-2001**.

