



# Monitoring FAQ Communications

Q1 2021



# What are the options for getting the Total Station connected to T4D?

---

- Cellular via the Settop M1
  - Any GSM network (ATT or TMobile in the US) with a data-only plan will work.
  - Cellular is the preferred method of communication with the Settop M1.
  - A static or dynamic IP SIM can be used



# What are the options for getting the Total Station connected to T4D?

---

- Ethernet connection
  - The M1 can be used either on a LAN or WAN with an ethernet connection.
  - The Settop Octohub is required for Ethernet connections.
  - If using a LAN, a local NTP server must be configured in the Settop M1. This can be done easily through the built-in web interface.



# What are the options for getting the Total Station connected to T4D?

---

- Satellite Internet
  - If both cellular and Ethernet connections are unavailable, a satellite modem with an ethernet port can be used with the Settop M1.
  - Depending on where the project is located, different satellite ISP's are available. Consult Trimble Support and your local distribution partner for more information.



# What are the options for getting the Total Station connected to T4D?

---

- Radio
  - An IP radio can be used with the total station if no other communication method is available.
  - Radios can be used when T4D is running on-site, and there is a clear line-of-sight to the total station.
  - Trimble does not manufacture radio solutions, so consult Trimble Support and your local distribution partner when selecting a radio.



# What are the power requirements for the Settop M1?

---

- 110/120 V Wall Outlet
  - The Settop M1 comes with everything you need to power the unit and the TS from a standard wall outlet.
- 12 V DC Power Supply (Solar + Battery)
  - If using a battery supply (like on a solar setup), an additional cable is required to connect the M1 directly to the battery or charge controller.
  - The M1 and TS each use 1 amp-hour.
  - A 150 Watt solar system will be adequate for most applications. Consult Trimble Support and your local distribution partner for more information.



# Do I need a housing for my M1?

- The Settop M1 is IP67 rated and will survive most installations without a housing, but cables, connectors, etc. are less durable, so it is recommended to install in a housing.
- A housing is available specifically designed for the Settop M1



# Does the Settop M1 come with everything I need to start monitoring?

---

- The M1 comes with all the necessary cables to start monitoring, but you will need some additional accessories:
  - Standard-size SIM card with a valid data plan from a GSM provider.
  - For battery-powered systems, an additional cable is required. Ask your distribution partner for more details.
  - Housing, if the unit will be exposed to the elements.



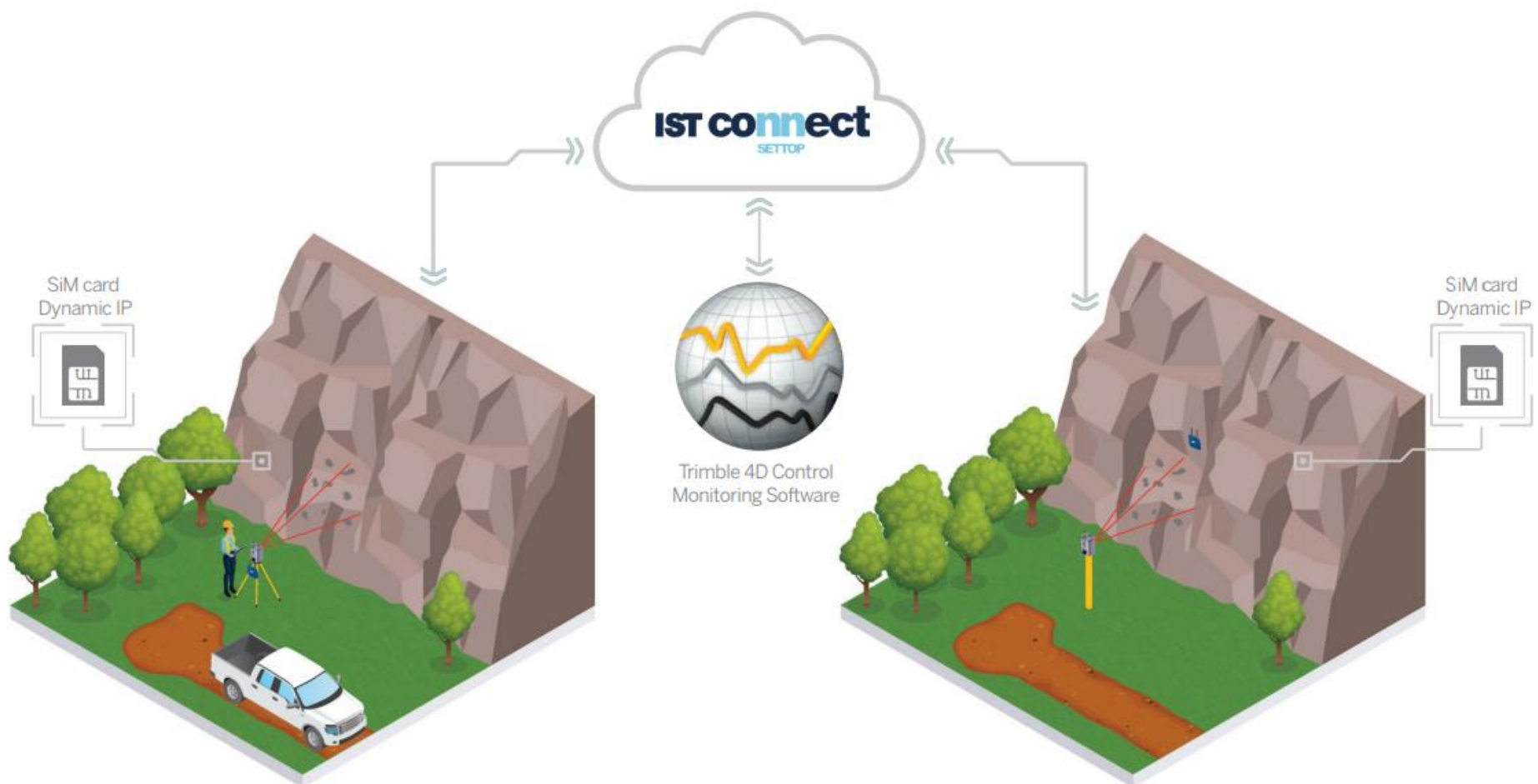


# How does the M1 communicate with T4D?

---

- The Settop M1 connects through the Settop IST Connect Service.
- IST Connect is a free, cloud-based hosting service from Settop.
- Create an account through the M1 to access your data through the internet.
- T4D connects to the M1 through the IST Connect Service
- Alternatively, a static IP SIM can be used for direct access to the Settop M1





# Standard Configuration

Monitoring Prisms  
OPTIONAL



PN: 46-MP-MON



PN: 58008040



PN: 58008030  
(box of 25 units)



PN: 110471-92  
Setup M1 to  
Trimble S 2.5 m Cable



PN: 110471-41  
(All included)  
**Trimble Bundle  
Setup**



PN: 110471-61  
Power cable +  
Thermometer



PN: 110471-61  
Power supply  
AC 110V 240V



SIM card required  
NOT INCLUDED



# Installation with a UPS

Monitoring Prisms  
OPTIONAL



PN: 46-MP-MON



PN: 58008040



PN: 58008030  
(box of 25 units)



PN: 110471-92  
Setup M1 to  
Trimble S 2.5 m Cable



PN: 110471-41  
(All included)

**Trimble Bundle  
Setup**



SIM card required  
NOT INCLUDED



PN: 110471-61  
Power supply  
AC 110V 240V



PN: 110471-61  
Power supply  
AC 110V 240V



PN: 110471-61  
Power cable +  
Thermometer



# Installation with the OctoHub, UPS, and Fiber Optic

