



| IoT Devices

Test Requirements for Evaluating  
Network Ready Devices for IoT  
(T.R.E.N.D.I.)



It's Time to Begin  
Network Testing  
with AT&T.



**AT&T**

If you have your TEST SIMS,  
you can use this guide  
to begin testing.

# Let's take the next step toward getting your device Network Ready!

## CONGRATULATIONS

on starting your network testing on the AT&T Network! This process will expedite the on-boarding of your device on the AT&T network. The AT&T IoT Team is here to help guide you through testing, though you will be able to do most of this on your own.

TO CONDUCT YOUR TEST, YOU MUST  
HAVE AN  
**ACTIVATED SIM**  
WITH AN ICCID # BEGINNING WITH  
**8901170**

YOU MUST ALSO HAVE A  
**DEACTIVATED SIM**  
WITH AN ICCID # BEGINNING WITH  
**8901170**

## BEFORE YOU BEGIN

Send the following information in an email using subject line: “TRENDI Test Start” to [iotteam@att.com](mailto:iotteam@att.com).

1. Device name:
2. Module used:
3. ICCID # from your Test SIM(s):
4. Start date and time(s):

If you're running Activated and Deactivated tests at the same time then let us know that. Otherwise, please send separate emails when the Activated and Deactivated tests each begin.

## REQUIREMENTS

If you have questions about the requirements, you can find links to verify them on the IoT Devices Website at [www.att.com/gnr](http://www.att.com/gnr).

### **Use an AT&T Approved Module.**

If you have not already done so, verify that your device uses an AT&T Approved Module by visiting [www.att.com/modules](http://www.att.com/modules).

### **Use the enclosed AT&T approved SIMs**

These are identified and numbered 8901170. If you already have SIMs that begin with this ICCID number, you may use them as well.

### **Use the exact software submitted for PTCRB**

AT&T will reject any test results if the software / firmware version of your device or module deviates from what was or will be used for PTCRB certification.

## ACCESS POINT NAME

The enclosed SIMs have open Internet access and will use “m2m.com.attz” as the pre-designated test APN.

# TESTING PROCEDURE:

The Activated and Deactivated tests below may be done in series or concurrently with identically configured devices. Please make sure the device and module are RESET to factory defaults (as they would be “out of the box”).

## ACTIVATED SIM TESTING

Insert the enclosed **ACTIVATED (A) SIM** into your device and ensure your device is connected to the AT&T network.

### TEST A1: VERIFY SMS CONNECTIVITY

- a. Locate the phone number for your activated test SIM written out on the back of this document.

Send five SMS loopback messages originated from the device under test, and verify receipt on your device.

Number each of the five SMS messages sequentially as “SMS Test 1”, “SMS Test 2”, and so on.

### TEST A2: VERIFY DATA AND SMS CONNECTIVITY IN A 24 HOUR PERIOD

- a. Configure your device to perform it’s intended functions that utilize cellular data, SMS, or voice capabilities (i.e.: User Initiated Action, Sensor, or Alarm based Interrupt, etc) to allow AT&T to baseline the device performance and verify that Data/SMS usage (i.e.: Keep Alives/ Autonomous Reporting/Check-Ins/ Regular Activity) is not excessive.
- b. Verify your device is functioning correctly and that these use cases are being performed over the cellular interface.
- c. Leave the device powered on for 24-hours, allowing the device to perform its functions during this interval.

- d. After 24 hours STOP!

**REMOVE THE ACTIVATED SIM FROM YOUR DEVICE!**

**IMPORTANT:** Please remove the Activated SIM from your device and do not place it into another device. AT&T uses Control Center to review information about this SIM to validate that the device TAC and SVN match what is filed with PTCRB. **AT&T will reject your test results if there is a mismatch!**



## DEACTIVATED SIM TESTING

Note: This test may be performed with the same device as the Activated SIM tests or an identically configured device.

Insert the enclosed **DEACTIVATED (D) SIM** into your device, power on the device and then perform the following test.

### **TEST D1: VERIFY DEVICE BEHAVIOR IN A 24 HOUR PERIOD WHEN PACKET DATA SERVICES ARE UNAVAILABLE**

- a. Configure your device to perform it's intended functions that utilize cellular data, SMS, or voice capabilities (i.e.: User Initiated Action/ Sensor or Alarm based Interrupt, etc) to allow AT&T to characterize device behavior when the network rejects Packet Switched attach attempts
- b. Leave the device powered on for 24-hours, allowing the device to attempt to access the network during this interval.

## TEST COMPLETED

As soon as you have completed all of these tests, simply "REPLY ALL" to your ORIGINAL email, and CHANGE THE SUBJECT LINE to "TRENDI Test Complete."

Put your Stop Date and Time at the top of the content.

We will review your device's performance and let you know the results.



For more information on the contents of this brochure,  
please visit the Get Network Ready tab  
on the AT&T IoT Devices website:  
[www.att.com/gnr](http://www.att.com/gnr)

## **IoT Accelerator**

Visit the IoT Devices site to find information on multiple aspects of IoT Development, including the IoT Accelerator. This program offers a selection of low-cost, high performance LTE modules certified for the AT&T network, simplifying IoT device designs while speeding your time to market. [www.att.com/iotaccelerator](http://www.att.com/iotaccelerator)

*During T.R.E.N.D.I., you will be asked to send SMS text messages to the phone number for your test SIMs. Please use the phone number associated with your SIM for that portion of the test.*

QUESTIONS? We invite you to email the IoT Devices team at [iotteam@att.com](mailto:iotteam@att.com) or, visit the IoT Devices site: [www.att.com/iotdevices](http://www.att.com/iotdevices)

