



| 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**

Your Test SIMs are Enclosed!

## BEFORE YOU BEGIN

Send the following information in an email to [getnetworkready@att.com](mailto:getnetworkready@att.com) using subject line: "TRENDI Test Start + (Device Name)"

1. Device name and IMEI #:
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/getcertified](http://www.att.com/getcertified).

### **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 final production hardware and exact software submitted for PTCRB**

AT&T will reject any test results if the device hardware, software, or module firmware 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. You may use a customer-specific APN as long as AT&T can see the SIM in the Control Center.

## 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 OVER A 24 HOUR PERIOD

- a. Configure your device to perform it’s intended functions that utilize cellular data, SMS, or voice capabilities — beyond simply booting up. For example, if an action should cause your device to trigger an alarm, we need to see it in action (using a User Initiated Action, Sensor, or Alarm based Interrupt, etc). This allows 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.

## TESTS COMPLETED

Once you have completed all of these tests, simply:

- "REPLY ALL" to your ORIGINAL email
- **CHANGE SUBJECT LINE to "TRENDI Test STOP + (Device Name)"**
- Put **Stop Date** and **Time** at the top of the content.
- Results will be posted under the Deliverables Tab under your OBT account.

## WHAT'S NEXT?

Go to [www.att.com/getcertified](http://www.att.com/getcertified)

- \_\_\_ *Identify your device*
- \_\_\_ *Get industry certified through PTCRB*
  - \_\_\_ *Get Certification Request Number and Onboard*
  - \_\_\_ *Complete/verify applicable antenna performance*
  - \_\_\_ *Verify PTCRB has been paid, and that your device is listed as approved on the PTCRB.com site.*

# 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.

ACTIVATED SIM (A)  
FOR TESTING  
GOES HERE

DEACTIVATED SIM (D)  
FOR TESTING  
GOES HERE

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

## **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 number below 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)

