

Telstra M2M device & module certification guidelines

RCM and ACMA technical standards

For a device or a module to connect to any Australia mobile network, the main requirement is the device has RCM/A-Tick certification, a regulation enforced by government agency, the Australian Communications and Media Authority ([ACMA](#)).

Telstra M2M Device Certification Program

Further to RCM/A-Tick certification, Telstra also performs in-depth interoperability testing and provides certification for certain devices for use on our mobile network. Telstra M2M device and embedded module certification testing is an activity that takes place only *after* ACMA RCM/A-Tick certification is met.

Telstra certification provides some reassurance of interoperability of the device/module with the Telstra mobile network. A logo is also provided by Telstra for use by the vendor upon Telstra certification (logo: 'Telstra Mobile Network Compatible').

Telstra certification ensures the device meets requirements on:

- band support
- throughput and data performance
- network selection and mobility
(e.g. re-acquisition of the 3G850 network when coverage is lost)
- data stability
- drive testing performance
- radio compliance
- antenna sensitivity and many other items.

Telstra selects devices and modules for certification based on criteria that align to Telstra's M2M strategy. There are also certain mandatory technical requirements that may affect selection for certification.

In brief, device testing or 'Telstra Approval' (TA) – is provided by Telstra for devices and wireless embedded modules:

- i. **Embedded modules** – Typically a 3G/LTE radio that will be embedded in a finished device such as a tracking device, vending machine, metering module etc. They will most likely have a BGA or daughterboard interface.
- ii. **Finished device** – These devices include an embedded radio. It is preferred that the device include an already certified module. If not, then both the module and finished device will undergo separate testing.

Testing is based on a set of criteria to establish which devices will be tested and their priority.

For further information please email WirelessM2MControlCentre@team.telstra.com