

LTE Broadcast Device Acceptance and Certification



Expway eBox is a compact and portable, full LTE Broadcast network, designed and packaged to run preliminary LTE Broadcast lab evaluations, and pre-carrier-validation tests. Mobile carriers, device makers and application developers worldwide use eBox to verify their LTE Broadcast devices' end-to-end connectivity and premium content delivery, and validate user experience quality, quickly and cost effectively.

How it Works

Rolling out commercial LTE Broadcast devices, applications and services is a complex, multi-step process requiring progressive network-to-device alignments with multiple debugging and verifications phases. It can also include passing stringent, costly and time-consuming carrier validation tests. Expway eBox improves carrier testing success rates - cost effectively. It allows you to simulate carrier-testing conditions and comply with carrier validation workflow, process and test plans, so you can pass your next carrier test with flying colors!

Key Features

- Full LTE Broadcast network
- Fits in a box
- Reception reports, log files, and file repair statistics
- Real premium content
- Real LTE Broadcast devices
- Real LTE Broadcast application

Key Benefits

- Easy to set-up and fully configurable
- Shortens time-to-market
- Reduces testing expenses
- Small and portable
- Complies with carrier validation workflow, process and test plan
- Improves carrier testing success rate



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Included In Expway eBox

Expway eBox is a real LTE Broadcast network - EPC and RAN, fully virtualized. It comes with the Expway BMSC - Expway's LTE Broadcast server software - pre-installed on a small portable hardware box and a multiband radio transceiver. Also included, is the Expway Middleware to enable mission critical mobile devices for LTE Broadcast.

Easy to Set-up and Fully Configurable

Expway eBox is easy to set-up and fully configurable. Various parameters can be configured (frequency, time sync, reference content samples and more) through easy-to-understand menus. There is no complexity of sourcing from a wide ecosystem and there are neither apps nor middleware to develop.

Pre-loaded Use-cases

Expway eBox comes with a full set of rich multimedia content, and the LTE Broadcast Application, designed to show today's most popular LTE Broadcast video streaming and content delivery use-cases. Each easily activated through the app interface, they quickly demonstrate and validate your project's potential and value.

Expway eBox LTE Broadcast App

- Includes 4 live video streams with channel switching to simulate live feeds
- OnDemand content push with "best-of" video clips
- Large file delivery such as operating system and software updates

Troubleshooting and Monitoring

Expway eBox also comes with log files and a log viewer to help troubleshoot and monitor your LTE Broadcast project performance. The following statistics can easily be viewed:

- Reception report status for QoE feedback
- File repair statistics for radio coverage & error protection fine tuning

Expway eBox Components

Expway eBox comes with the following hardware, software and content pre-packaged, ready to go:

- Server Hardware
 - One server (Barebone Mini-PC)
 - One 4G Device (with Android Kitkat or 5.x)
 - One RRH with coax/antenna
- Server Software
 - Expway
 - BMSC
 - FEC
 - File Repair Server with error protection fine tuning
 - Reception Report
 - LTE EPC (MME-SGW)
 - LTE RAN (eNodeB)
- Server Content
 - Pre-loaded content (inc. audio and video)
- Terminal Hardware
 - Latests commercially devices are optionally available, including smart phones and tablets and mifis.
 - Or, your device to pre-validate.
- Terminal Software
 - Pre-loaded Expway Middleware
 - Or, the LTE Broadcast middleware of your choice

eBox can also be customized for specific application use by Expway on request.