

# CASE STUDY

## HDTV streaming receiver platform integration

### Overview

The largest Japanese cellular telephone company debuts 300Mbps wireless service proof of concept using an advanced HDTV streaming platform. nCore delivers set-top box platform integration services for a successful launch at CEATEC 2007

### Challenge

Manufacturer of a high-performance video streaming platform needed to integrate custom video decoding software on a set-top box for H.264 and MPEG-2 HDTV streaming. The project had to be completed and the SVRs delivered in time for the CEATEC 2007 trade show within very tight deadlines

### Solution Description

The project consisted of: Linux platform integration on a Broadcom 7401C based SVR, special system startup and shut down sequences, platform configuration management, firmware image creation, installation, unit testing and final installation at the customer site. Additionally nCore provided platform integration consultation and pre-show installation support.

### Results

- Tightly integrated, high performance Linux platform for video streaming enables high bit-rate full HD H.264 or MPEG-2 video streaming.
- Successful delivery of the entire receiver platform integration, firmware image creation and SVR unit preparation.



## CASE OVERVIEW

### Situation

Video streaming hardware company needed to integrate custom streaming software on Linux using a Broadcom 7401C based board under time tight constraints.

### Solution

Custom software integration and final assembly of a Broadcom BCM 7401C platform based HDTV receiver using a Linux kernel and associated tool-chain.

### Benefits

- Successful proof of concept demonstration of high bit rate H.264 and MPEG-2 HDTV streaming at CEATEC 2007 and other trade shows.

### About nCore

nCore Design LLC develops high performance software and systems for multicore processors, GPUs and embedded systems. nCore has significant expertise on wide variety of computing platforms and specialized knowledge of applied software optimization techniques. nCore is a leading provider of hands-on, instructor-led training courses focused on programming multicore and GPU processors.

nCore is a privately held company with offices in Japan and the US. nCore works with local partners to deliver state-of-the-art solutions to multinational technology companies.