LCR PC Guide



Introduction

This document describes recommended mini-PC models and configurations for use with Live Channel. The hardware-choices in this document are from well known providers and will allow the customer of Live Channel to have a low-cost hardware setup. It is a goal for Sportradar that our customers try to standardize the hardware-setup for Live Channel and to run on an efficient platform that ensures stability and easy maintainability.

A mini-PC is a standard PC in a small form-factor unit. In this document we have given examples that have been tested by Sportradar and that also is a good value for money. The purpose of the document is to describe the necessary equipment and configuration, so that after finishing all steps the mini-PC can be used without user interaction (apart from switching on the device).

Prerequisites

- Internet connection of at least 1 Mbps (2 Mbps recommended)
- LAN 100Mbps
- TV-set with HDMI input
- Live Channel account

PC Recommendations

Hardware

- CPU¹
 - Minimum requirement: average CPU Mark of ~1200 at http://www.cpubenchmark.net (e.g. Intel Atom x5-Z8300 @ 1.44GHz) Recommended: average CPU Mark of ~2400 at http://www.cpubenchmark.net (e.g. Intel Core i3 4010U) System Memory (RAM): 2GB or more
- · Hard Disk: min. 5GB free space
- Ethernet (LAN): 100 Mbps or above
- 16-bit sound card
- Graphics card with 1 GB memory and 1920×1080 resolution, DVI or HDMI-output connected to display
- Connection to TV-Screen/Display (HDMI recommended)

Software

- Operating System: Windows 10 or Ubuntu/Lubuntu *
- Browser Chrome latest version (48.x or above) or Firefox (44.x or above) *
- JavaScript and Cookies enabled

*) Sportradar have successfully tested running the Live Channel on Ubuntu/Lubuntu PC, and we can recommend this if customer has Linux knowledgeable personnel. Other browser-types and operating systems may potentially be compatible; please contact m.maass@sportradar.com in case you require to use other operating systems or browsers.

Recommended Mini PC Models

Equipment needed for bet shop

We recommend to use a mini PC which can be attached at the backside of the TV set/ Monitor. E.g. via a Vesa mount unit. Below are example configurations for Intel NUC and Intel Compute Stick.

Intel NUC (option1)

Example: NUC5I3RYK with Intel® Core™ i3 5010U processor

http://www.intel.com/content/www/us/en/nuc/overview.html



Sportradar recommend the current generation Broadwell CPUs with Intel HD Graphics 5000 for futureproof performance. The NUC unit from Intel has the advantage that it includes an Ethernet port as a backup for poor WiFi conditions. The Intel NUC delivers full PC performance for the requirements of Live Channel.

Setup of Intel NUC

Important steps when setting up the Intel NUC:

- 1. Install Windows (or alternatively Linux) from a bootable USB stick
- Update Windows using Windows Update from Start Menu à Settings à Update & Security
 Install Intel Driver Update utility in Windows from: http://www.intel.com/content/www/us/en /support/detect.html?iid=dc_iduu
 - Start the Intel Driver Update utility and click "Start Scan"
 - Download and intall the found updates
 - Reboot Intel NUC and verify again that no updates are available
 - Intel NUC is ready to use

Required extra components Intel NUC:

4GB SODIMM DDR3 RAM module low voltage version



A USB stick e.g. 16GB (recommended USB 3.0 for faster I/O) for Windows/ Image installation

One M2.SSD as internal mass storage (64GB)



or optional a USB Flash drive 64GB as external mass storage



Intel Compute Stick (option2)

Example: Intel Compute Stick with Windows 10 (STK1AW32SCR)



The Intel® Compute Stick is a complete and affordable Windows PC with a quad-core Intel® Atom[™] X5 processor, Intel® HD Graphics, integrated Wi-Fi and Bluetooth technologies, 32 GB storage, 2 GB memory, two USB 2.0 port, HDMI port and a Micro SD card reader.

For further information please refer to: http://www.intel.eu/content/www/eu/en/compute-stick/intel-compute-stick.html

Setup of Intel Compute Stick

Important steps when setting up the Intel Compute Stick:

- 1. Update Windows using Windows Update from Settings à Update & Security
- Install latest BIOS update, as old BIOS gives known problems with video playback performance
 - a. Guide from Intel: http://www.intel.com/content/www/us/en/support/boards-and-kits /intel-compute-stick/000005961.html
 - b. Sportradar recommends:
 - i. BIOS update:
 - Download latest BIOS from https://downloadcenter.intel.com /product/84806/Intel-Compute-Stick
 - for the model name found on the back of your Intel Compute Stick
 - Load the .bio file in root directory on an empty MicroSD card
 Debegt the latel Compute Stick and proof 57 while beging
 - Reboot the Intel Compute Stick and press F7 while booting
 - Select the file from MicroSD card and install using the tool
 - Boot Intel Compute Stick again
 - ii. Install Intel Driver Update utility in Windows from: http://www.intel.com /content/www/us/en/support/detect.html?iid=dc_iduu
 - Start the Intel Driver Update utility and click "Start Scan"
 - Download and intall the found updates
 - Reboot Intel Compute Stick
 - iii. Intel Compute Stick is ready to use

Recommended peripherals for Intel Compute Stick

As the Intel Compute Stick does not ship with a LAN port we recommend to connect a USB hub network adapter to be able to connect it via LAN (rather than Wi-Fi) if WiFi connection has a weak signal.



For set-up, administration and configuration, you need:





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