OVERVIEW
Frontier Silicon’s IR 2.7 connected audio software is versatile and easy-to-use software available for next generation Internet connected audio systems and enables the integration of Spotify Connect. The selection and playback of Spotify Connect is controlled remotely via Spotify iOS and Android apps and the Spotify desktop client*. IR 2.7 also includes other interactive music services and Internet radio.

The software has been designed for the Venice 6.5 connected audio module and its Jupiter 6.5 reference platform. IR 2.7 is available in two modes: a Headless mode (HUI), controlled by buttons, two LEDs, and a rotary encoder, and an Enhanced User Interface (EUI) mode, controlled with a keypad, 2 rotary encoders with a monochrome 128 x 64 pixel display with full graphics support and an optional remote control.

IR 2.7 offers full control of the network audio system to an external processor over Frontier’s FSAPI communications interface. IR 2.7 is supplied with full host-side reference source code and compliance test suites to ensure the quickest time-to-market. The radio can also be controlled via an innovative Android or iOS Smart Device app.

MODES
• Streaming mode acting as a Digital Media Renderer (DMR) giving access to networked audio libraries and Spotify Connect music services
• Music player for playback of USB or network-stored library of music files - supports MP3, AAC/AAC+, WMA, FLAC, LPCM, WAV, and ALAC
• Internet Radio with over 13 000 stations and podcasts and presets
• DAB and DAB+ digital radio with Dl Plus, accessing a wide choice of broadcast channels free-to-air
• FM with RDS (Radio Data System)
• IOS dock with iPhone/iPad/iPod control/charge
• Aux in for external music sources such as MP3 players

CUSTOMISATION AND UPDATES
Frontier Silicon works closely with customers to brand and customise all software for particular markets and end-products. The software includes a seamless USB/Internet update function.

The Frontier Smart Device app can be customised with your company logo and images.

* coming soon

APPLICATIONS
• Spotify Connect
• Wireless speakers
• Internet Radios
• AV receivers
• Speaker docks
• Hybrid DAB/DAB+/FM Radios

CONNECTIVITY
• 802.11a/b/g/n – WEP, WPA, WPA2 security
• Bluetooth connectivity optional with integrated firmware upgrade.
• USB 2.0 Full Speed device/host
• iOS device docking via USB
• 10/100 Mbit/s Ethernet
• Digital audio output - I2S or S/PDIF
• Support for remote operation and configuration over Wi-Fi and Ethernet
• Infrared remote control

FEATURES
• Spotify Connect - premium service access to Spotify Connect with auto-login, and presets
• Smart Device control app for Android and iOS devices
• Multiple network profiles for easy setup and portability
• Music player playlist queueing, shuffle, and Trick play (rewind, fast forward, track progress indicator)
• Metadata support, to show track information, with: Streaming audio, USB and Internet Radio
• Audio EQ as a software or hardware option giving preset and user defined settings
• Multiple languages including English, Danish, Dutch, French, Finnish, German, Italian, Norwegian, Polish, Portuguese, Spanish, Swedish and Turkish
• Wi-Fi Protected Setup (WPS)
• DLNA/UPnP support
• Automatically software upgradable in the field through Internet/Wi-Fi or USB
SMART DEVICE CONTROL APPS

IR 2.7 can be controlled remotely from an Android or iOS Smart Device using the Frontier Control App. This application has an intuitive and appealing user interface with which you can control your radio from anywhere in the home.

In Streaming mode a connected Smart Device can stream music, or connect to music services like Spotify Connect, and direct music from any suitable networked source or the internet.

NETWORK INTEGRATION

IR 2.7 gives access to network music services and is DLNA and UPnP compatible, integrating seamlessly into home networks. Two media networking use cases are shown below.

USE CASE 1: SPOTIFY MEDIA

USE CASE 2: MICROSOFT “PLAY TO”

STANDARDS AND CERTIFICATION

Venice 6.5, the Jupiter 6.5 reference platform and the IR 2.7 software have been designed to operate seamlessly with the rest of the connected audio world. As well as working with the standards shown, end-products based on IR 2.7 should be able to obtain certification for various other industry standards; such as Made for iPod/iPhone certification, Wi-Fi, and DLNA certification. For more information, contact Frontier Silicon.