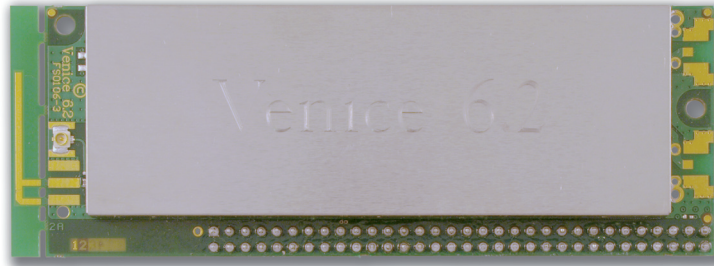# Venice 6.2 FS2026-2

Module for connected audio systems with Internet radio/DAB/DAB⁺/DMB/FM

Venice 6.2
45 x 113 mm,
including snap-off
Wi-Fi PIFA antenna

Overview

Venice 6.2 is a complete solution for Internet radio, UPnP network streaming, premium content services, DAB/DAB⁺/DMB-A and FM-RDS. It provides the simplest and lowest-cost solution for high-quality connected audio systems.

Venice 6.2 has been designed as part of a complete system including IR software version 2.0 and the Jupiter 6.2 platform.

Based around Frontier Silicon's powerful Chorus 2 processor, Venice 6.2 streams radio and music files in a variety of formats including AAC+, MP3, Real, WMA and FLAC, enabling a new generation of stand-alone network-based audio products.

Frontier Silicon provides a complete set of evaluation and reference platforms, which can be used to enable rapid development of Venice 6.2 based systems.

Modes

- Live Internet radio broadcasts
- Internet radio "listen again" on-demand content
- Last.fm[1]: personalised streaming music
- Pandora[2]: personalised interactive radio
- Rhapsody[2, 3]: unlimited access to millions of tracks
- SiriusXM Internet radio[2] with over 80 channels of ad-free music, sports and talk
- Music streaming with playlist capability and trick play
- DAB Digital Audio Broadcast radio
- DAB⁺ with additional AAC+ codec
- DMB-Audio[3]
- FM radio reception with RDS
- Audio playback from USB with trick play
- iPod/iPhone control including audio playback

Connectivity

- USB 2.0 device/host
- iPod/iPhone dock
- 802.11b/g – WEP, WPA, WPA2 security
- On-board audio DAC
- Digital audio output - I^2S or S/PDIF
- LCD interface supports range of displays
- Infrared remote control
- Keyboard presets, rotary encoder
- Support for external 10/100 Mbit/s Ethernet

[1] IR2.0, currently available in US, UK and Germany

[2] IR2.0, currently available in US

[3] Available on request

[4] Available in software version IR 2.1

Applications

- Internet radio
- Kitchen radio
- Boombox
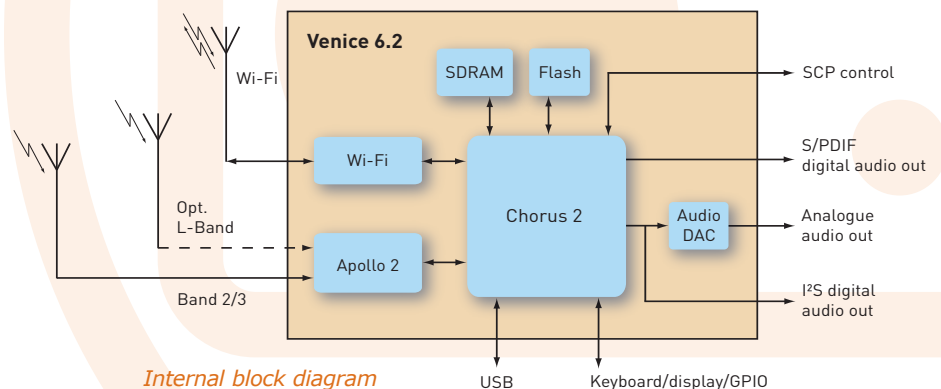- Alarm clock radio
- CD micro system
- HiFi tuner

Features

- Simple registration and configuration via device set-up wizard
- Wi-Fi Protected Setup (WPS) for easy pairing with a home router
- DRM (digital rights management) for protected music files
- Clock/alarms
- UPnP support - (DLNA compliant)
- Automatically software upgradable in the field through Internet/Wi-Fi or USB
- Internet Media Device Alliance certified
- DLNA 1.5 DMR[4]
- Windows 7 compliant[4]

Differences from Venice 6.0

Venice 6.2 is a plug-in replacement for Venice 6.0, with additional Wi-Fi antenna options, DRM playback and enhanced software capabilities. The module is also designed so that end-products using it may gain certification for various industry standards.
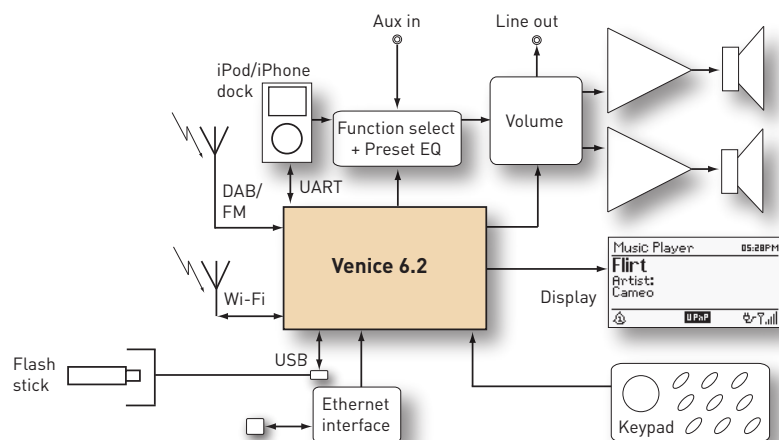
Venice 6.2 has been designed for IR software version 2.0. Amongst other things, this allows trick play and several extra modes for premium music services.

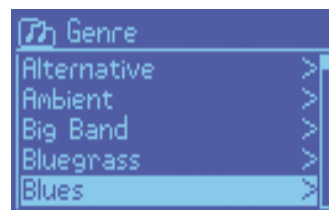*Internal block diagram*

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Typical application

User interface

The intuitive user interface enables search and browse of over 12 000 Internet radio stations and 200 000 listen again and podcast services through just a few key presses.

The UI supports a wide variety of navigation options to browse the huge selection of stations, including search by:
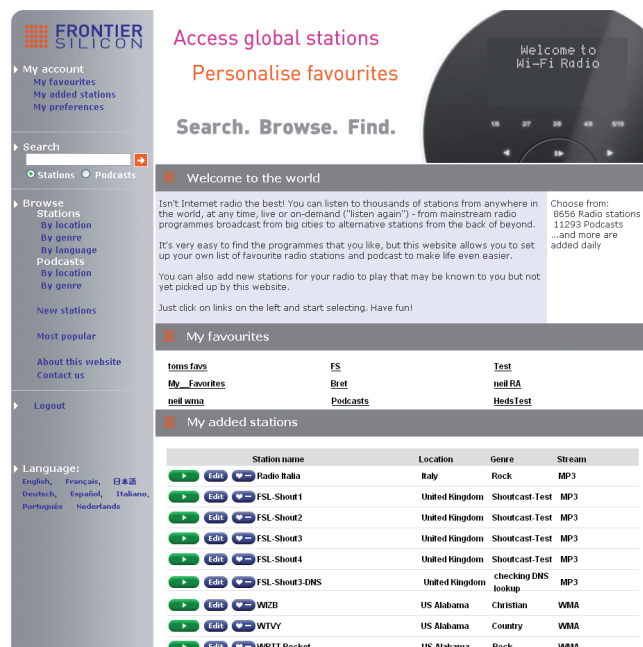
- Favourites
- Location
- Genre
- New stations
- Most popular
- Podcast by location
- Podcast by genre
- HD radio stations*

Web portal

Venice 6.2 is integrated with Frontier Silicon's feature-rich Wi-Fi Internet radio web portal, providing alternative access and preset configuration for Internet radio, podcast and listen-again services.

Each listener can use the portal to find and store favourite Internet radio stations in different groups. OEMs may produce their own branded version of the portal if required.

Frontier Silicon Wi-Fi radio portal

* Most HD radio stations available to stream

Build options

Product code		Wi-Fi Net audio	DAB		FM
			Band 3	L-Band	
FS2026-2	W	•			
	WD	•	•	•	•
	WF	•			•
	WB	•	•		•

Further options are described in the Venice 6.2 datasheet.

Standards and certification

Venice 6.2, Jupiter 6.2 and IR 2.0 have been designed to operate seamlessly with the rest of the digital audio world. As well as working with the standards shown, suitable end-products based on this platform should be able to obtain certification for various other industry standards including Works with iPhone and Made for iPod; for more information, contact Frontier Silicon.

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