



What Can The Nucleus Do For Me?

Your fast paced morning show, voice trackers, content creators and live remotes all demand one key element: A simple way to get audio in and out of your studio. At the heart of a busy studio is the Nucleus Advanced IP Engine. In one small rack space, the Nucleus delivers Dante AoIP, a host of I/O, and full mix engine capable of running any size SAS console.

Works Alone or Plays Well With Others:

From a small facility with one studio to a major market cluster, the Nucleus is equally at home. Using standard IP networking, you can connect the Nucleus with control rooms, routers and other engines. Any and all sources in your facility are a knob-twist and button press away.

Easily Take Control:

A new advanced Graphical User Interface allows easy installation and configuration. Using any web browser you can change sources with a quick click of the mouse on the crosspoint map. Program a button for an external source selection, set up a remote start for outboard equipment, relabel a fader and create a mix minus with talkback in a matter of seconds.

An All-In-One Solution:

More than an I/O box and more than a mix engine, the Nucleus is your true "studio in a box" solution. Legendary SAS features such as time-based automation, metering, silence and peak detect on every channel and mix bus are all standard. EQ and Dynamics available for onboard processing of mic, phone or any channel that could use a bit of that extra audio touch. Powered by 3 onboard high speed DSPs, the Nucleus is future proof with easily installed firmware updates.

Eliminate Costly Sound Cards:

This small module can save you up to \$6,000 in a typical studio setting. No more expensive sound cards on your automation, editor and various studio PC's. With the Dante Virtual Sound Card, for the price of lunch, you can have 64 channels in/out in ASIO mode (16 in WDM).



The Nucleus IP Engine will also connect to any AES67 device and SMPTE 2110 compliant equipment. True to the SAS philosophy of "Keep Calm and Have a Backup" the Nucleus IP Engine provides dual AoIP ports with a built in switch for redundancy against network switch lockup and failures.

Input and Output Specification:

- 8 User Analog In (4 Stereo or 8 Mono)
- 16 User Analog Out with PoE (8 Stereo or 16 Mono)
- 4 User Digital AES3 In (4 Stereo or 8 Mono)
- 8 User Digital AES3 Out (8 Stereo or 16 Mono)
- 64 Dante Channels (32 Stereo)
- RJ45 connections on all I/O for fast installation

Console System Outputs:

- 4 System Digital Out (Console Meters, Headphones, Cue)
- 8 System Analog Out (PoE for Guest Headphone Amps)

Additional Features:

- Automatic Mix-Minus and IFB available on every source
- Connect to any Dante AoIP device from Focusrite, Evertz, RTS, Yamaha and others, including Audinate Dongles Integrate with broadcast automation from PayoutOne, Wide Orbit, RCS, ENCO, BE, BSI and any application that supports ASIO or WDM drivers

