



ACCESS 2USB

The Comrex ACCESS Stereo BRIC IP Audio codec has set the standard for reliable remote broadcast. The new ACCESS 2USB redefines that standard. Now with two USB ports and support for select 4G Wireless cellular data service modems, ACCESS 2USB provides even more flexibility to meet the demands of on-the-go broadcasters. ACCESS codecs now ship with AAC Coding Algorithms, BRUTE (BRIC UDP Transmission Enhancement) technology, and network bonding capabilities to provide users with a complete complement of tools to help get your remote broadcast on the air.

BRIC Technology

Developed to overcome the inherent instability of challenging data networks like the public Internet, BRIC Technology provides a sophisticated suite of tools that allow for high-quality, low-latency, stable transmission of audio over a wide variety of data networks. Intelligent, Dynamic Jitter Buffer Management, BRIC algorithms and the Switchboard Traversal Server all work together to provide the most stable Audio over IP transmission platform available for remote broadcast.

IP Networks

IP networks are available virtually everywhere. ACCESS 2USB offers several ways to get connected. You can utilize the included USB Wi-Fi modem to connect to widely available HotSpots or use the integrated Ethernet port to connect to wired DSL or broadband cable IP networks. Either of the two USB ports will accommodate connections to 3G/4G cellular data networks using Comrex supported USB devices. ACCESS 2USB also includes a USB POTS/PSTN modem for use on legacy analog phone lines.

Any of these networks can be connected simultaneously for increased bandwidth and network stability.

BRUTE

Not all IP networks are created equally. In fact, some can be quite challenging such as certain Wi-Fi and 3G cellular connections. Comrex has developed BRUTE (BRIC UDP Transmission Enhancement) to help maintain stable and reliable transmission on marginal networks. UDP Reliability and Congestion Avoidance modes provide an extra measure of error protection with a minimal increase in latency.

CrossLock

With the addition of firmware version 4.0, ACCESS is now equipped with CrossLock. CrossLock creates a virtual private network (VPN) between ACCESS units. This VPN increases reliability and enables simultaneous use of multiple networks. With CrossLock, ACCESS can bond networks for more bandwidth, making it easier to conduct high fidelity broadcasts from even more places.



AAC (Advance Audio Coding)

ACCESS 2USB includes AAC modes as standard. For broadcasts that require the highest audio quality available, AAC delivers. AAC, AAC-LD (low delay), HE-AAC (high efficiency), HE-AACv2 and AAC-ELD (enhanced low delay) can accommodate nearly any bandwidth, latency or audio quality requirement. In particular, the AAC-ELD mode provides the perfect balance of low bit rate, low delay, and high quality audio to get the best out of remote broadcasts.

(For users who prefer our HQ1/HQ2 encoders or other encoders that are no longer supported, ACCESS 2USB can be "downgraded" to an older firmware version. Instructions can be found on our website: <http://www.comrex.com/support/access-2usb-and-rackmount/#firmware>

Portable

ACCESS 2USB is the most portable and versatile professional IP audio codec on the market. With its 7-hour Lithium Ion battery, integrated mixer, easy-to-navigate touch screen and handheld form factor, ACCESS can go just about anywhere...and has! Wherever there is breaking news, a major sporting event or large outdoor festival, you're likely to see an ACCESS Portable. The ACCESS Portable is the "go-to" remote broadcast tool for broadcasters worldwide.

Optional Mixer

ACCESS 2USB provides a single MIC/Line input on XLR plus stereo line level inputs and outputs and a headphone output. It's perfect for reporters running after a story or simple remotes. For situations that require more mics and headphones, the optional ACCESS Mixer easily docks onto the side of the ACCESS 2USB to provide a total of six switchable MIC/Line XLR inputs and six headphone outputs.

Rack

While the ACCESS 2USB has been optimized to provide complete mobility and solid reliability, the ACCESS Rack has been designed as its perfect studio counterpart. The 1U 19" rack mount ACCESS features balanced stereo XLR inputs and outputs, AES I/O on XLR, Ethernet port, POTS modem, multiple USB ports, serial and contact closure ports. ACCESS Rack can be directly controlled with a keyboard/video/mouse, a USB Touch screen monitor or driven with a standard web browser with Adobe Flash Player installed.

Connect and Control

ACCESS codecs offer several ways to be configured, controlled and managed. Comrex Device Manager is a free Windows app that allows for easy IP configuration of ACCESS codecs as well as firmware and license updates. Comrex Switchboard Traversal Server, managed by Comrex, provides a simple way for ACCESS codecs to "see" each other from behind Firewalls and private LANs.

ACCESS 2USB Connections & Features

- MIC/Line switchable mono input on balanced XLR with adjustable volume control
- MIC input offers switchable 12v phantom power
- Stereo headphone output on 1/8" (3mm) mini jack with adjustable volume control
- Stereo analog line level inputs/outputs on unbalanced 1/8" (3mm) mini jacks
- "Hands free" cellular connection on 1/8" (3mm) mini jack
- Audio level meters available via integrated LCD interface
- Two USB ports for Wi-Fi & POTS modems (included) and optional 3G/4G devices
- RJ45 Ethernet connector
- DIN connector for serial ancillary data
- DIN connector for Contact closures (4)
- Multi-pin connector for optional mixer



SWITCHBOARD
TRAVERSAL SERVER

