

DS20 Audio network bridge.



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**d&b
audiotechnik** 



More than just an interface.

The DS20 is an interface, yes, but what appears to be an unassuming device plays a much larger role than that. It symbolizes the inauguration of a new solution for networked audio; the DS20 Audio network bridge is the first Milan-enabled d&b product.

Milan is not just a d&b story, although it does fit very nicely into the d&b System reality. The story of Milan is the story of leading manufacturers working together to develop a transport protocol based on open standards, that guarantees delivery of professional media, and provides a new level of convenience within an enduring network.

The d&b workflow improves efficiency all the way from system planning to advanced remote control of the entire d&b solution. Milan enhances the d&b workflow through a better user experience of networked audio. The DS20 Audio network bridge is the key to unlocking the possibilities of Milan.

One entirety, two possibilities.

The d&b system approach comprises loudspeakers, amplifiers, networking, software, accessories, and cabling solutions. Designed to provide optimum results by maximizing the performance of the complete d&b system, this approach ensures reliability, consistency and efficiency. At the same time d&b offers choice within a system, ensuring each application is served the best possible ingredients to achieve the desired result. This is the d&b System reality.

The DS20 Audio network bridge now offers a new network choice within the d&b workflow. Use the DS20 with Milan, or use the DS10 Audio network bridge with Dante. Both will transport audio and remote control data via Ethernet from the mix position to the d&b amplifiers. Either way, the complete d&b system can be accessed and controlled using the R1 Remote control software via Ethernet through the Open Control Architecture (OCA/AES70) protocol.

Industry-driven initiative.

Milan offers a deterministic network that supports any type of media, developed by a collaborative group of industry leaders; technical experts from several manufacturers working in close collaboration with their direct competitors.

The common vision was to satisfy the industry's requirement for moving time-sensitive data without dropouts or non-deterministic latency. The IEEE's Audio Video Bridging (AVB) technology does this through guaranteed quality of service and enhanced time synchronization.

Milan harnesses these technical benefits, and offers a network solution that:

- Is managed openly by a collaborative group of industry leaders
- Guarantees interoperability between Milan-certified devices
- Eliminates the risk of drop-outs or degradation of media
- Doesn't require switch configuration or extensive IT experience
- Is scalable and flexible
- Assures long-term viability through IEEE open standards

The DS20 Audio network bridge.

Positioned within the signal chain in front of the amplifiers, the DS20 Audio network bridge expands the d&b system approach in both mobile and installation environments.

The DS20 provides sixteen AES3 digital output channels and enables any Milan equipped device to seamlessly connect with the d&b amplifiers. In applications not using a Milan enabled console, the DS20 acts as an AES3 distribution device when in bypass mode, increasing network flexibility.

An integrated 5-port fully AVB-enabled switch offers a primary and redundant network. Milan metadata including channel labelling information is sent via the AES3 stream to the four channel d&b amplifiers.

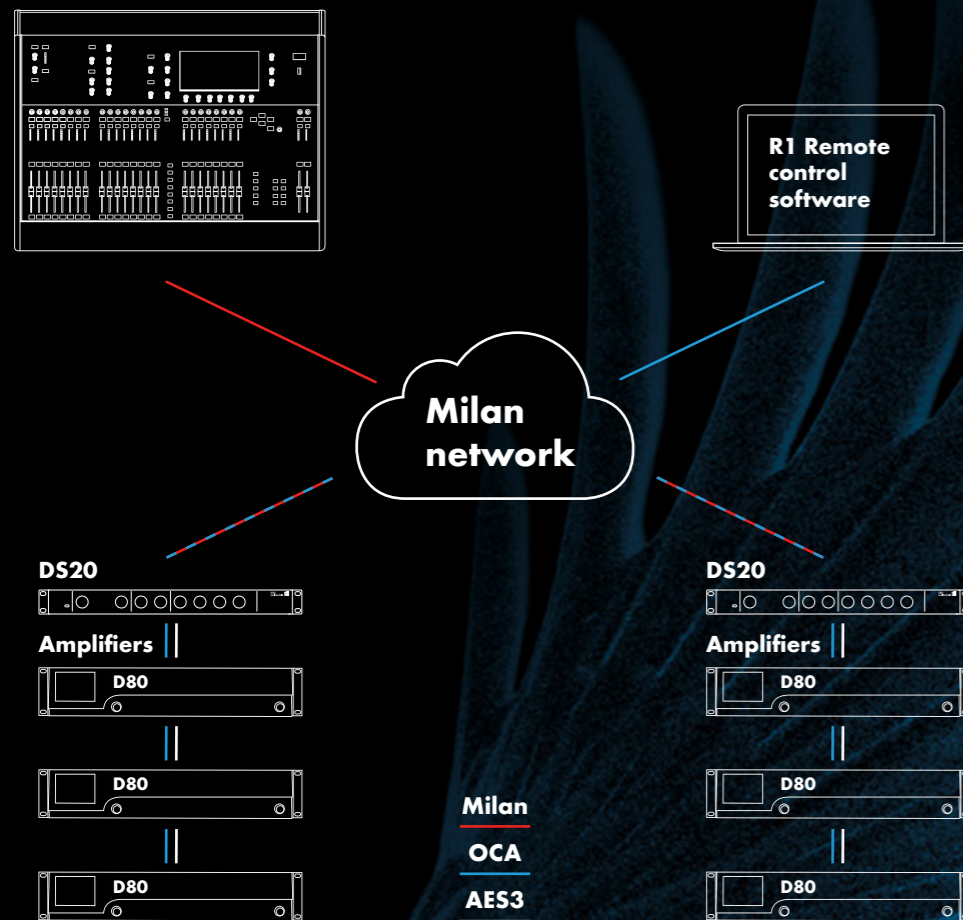


Uniquely uniform.

The d&b System reality is designed to provide optimum results by maximising the performance of d&b sound reinforcement systems: ultimate reliability, total consistency and absolute efficiency.

The introduction of the DS20 means the d&b system starts directly at the mixing console output. Through Milan, it can easily coexist on the same network with endpoint devices from other manufacturers without drop-outs or degradation of media.

The DS20 Audio network bridge is an extension of this reality, an expansion of the reach of the d&b workflow. Milan enabled devices interface directly with the AES3 inputs of the d&b amplifiers. The signal path from the console to the loudspeaker is smoother than ever before: one network bridge, one piece of remote control software, interacting effortlessly with any Milan enabled subsystem through deterministic transport and precise synchronization; streamlined operation with impeccable results.



Standard approach.

As an open standard, each manufacturer can use AVB in their own implementation. Milan is based on AVB IEEE standards, and provides clear requirements for media streams, formats, clocking and redundancy. No guesswork, no trial-and-error. Any Milan certified device is guaranteed to work with another.

Certification of compliance with standards and interoperability specifications is available through Avnu Alliance, along with a long-term commitment to supporting Milan. Fashions come and go, but IEEE standards are forever.

d&b system networks

DS10	Dante
DS20	Milan

dbaudio.com/ds20

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