

On-Air audio consoles for Radio / TV / Multimedia

# DX816 Digital Audio Console

**12 channels with AoIP & AES options**

**5 MIC +  
4 LIN +  
3 Phone Hybrids**



# DX822 Digital Audio Console

**16 channels with AoIP & AES options**

**10 MIC + 4 LIN + 2 Phone Hybrids + cell phone**

- ✓ 4 digital USB stereo channels (2 inputs and 2 PGM and REC outputs)
- ✓ Four band equalizer for 5 microphones (two equalizers in DX822)
- ✓ Audio Compressor to level the sound of the microphones.
- ✓ Phone exchange panel with 3 phone line + Skype / WhatsApp.
- ✓ Illuminated professional buttons with long life
- ✓ Extra soft conductive ceramic faders for 15 years life.

- ✓ 3 Telephone hybrids in conference; one is a cell phone via Bluetooth.
- ✓ 4 LED VUmeters of precision + compression VU meter.
- ✓ Master MIC button for simultaneous sending of MICs to the air
- ✓ Option AoIP: 4 or 8 AoIP IN/Out (Ethernet LAN).
- ✓ Option PRO: USB-Data to trigger audio or video from PC
- ✓ Option AES-3 / SPDIF Digital outputs of PGM-REC

*Each block of 5 microphones* has an equalizer of four bands switchable to PGM or REC especially designed for the human voice. Your announcers will have that special sound of the big consoles of very high price, which will delight your listeners.



*The DX series consoles mark a world milestone in advanced technology for the new radio studios of 65 countries*

✓ **DX line has replaced with advantage other brands of high priced consoles of the market.**

They are the consoles for Air and Production studios of lower market price offering digital connection, illuminated buttons, internal phone hybrids and faders of 5 million operations. DX line covers the needs of the modern Radio stations / TV / Multimedia.

The conductive ceramic faders give 15 years life free of problems.

It has 3 telephone hybrids (one cell phone with Bluetooth) that operate in conference managed by luminous keypads.

The console has independent stereo outputs for Air and Recordings with 5 monitored channels. In this way you can do simultaneously two tasks.



Solidyne is the world only company in offering the new technology of Conductive Ceramic faders of 15 years life. They are easily recognized because of its remarkable softness; it can be moved using a feather.

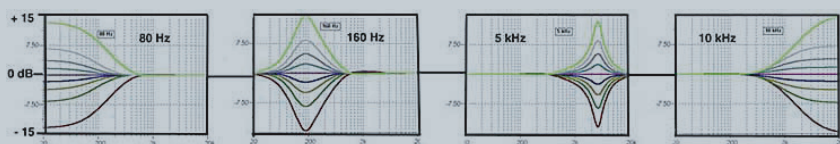


Advanced monitor panel with 5 channels allows the independent management of 4 stereo outputs for Studio and Control loudspeakers and headphones.



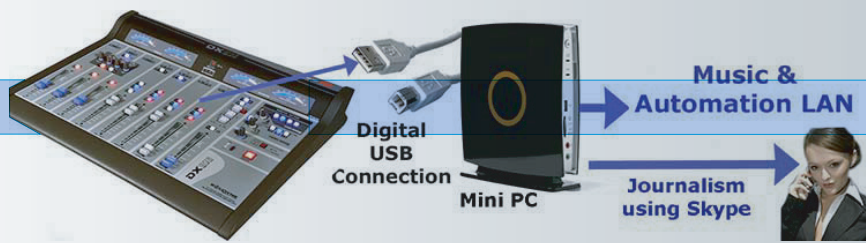
The cell phone line is wirelessly operated via Bluetooth with digital audio connection achieving a better sound quality.

## Four band equalizer frequency response





► **USB digital connections combined with a Mini three-line telephone exchange with Bluetooth**

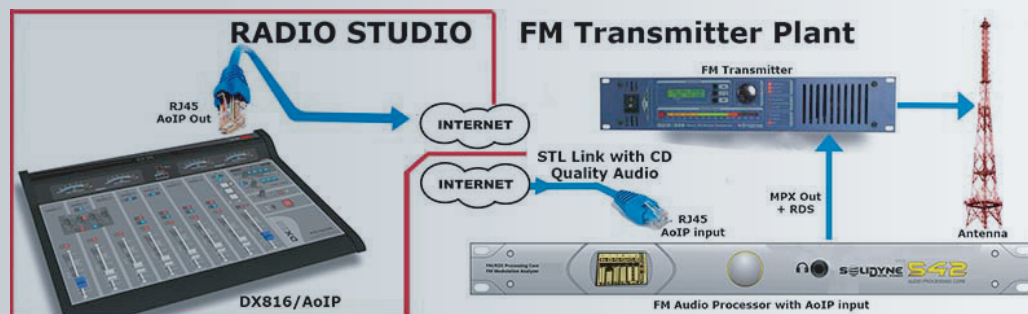


The two USB inputs allow a direct connection to one or two PC computers, without the need for use audio boards. It achieves an excellent digital sound quality because it does not use analog connections.

It allows to playback music from the PC, using play out software and shoot your ads or sound effects with just opening the fader. It handles two stereo input channels and two outputs. It allows direct connection to Skype,

WhatsApp and other programs to communicate in conference and at no cost. It has independent stereo outputs for Air and Recordings. Then you can do simultaneously two tasks. A monitor panel has five monitor inputs.

► **DX816 / DX822 models with AoIP option**



This option allows you to send audio directly from the console to the transmitter plant (STL link) using Internet with the digital audio quality of a Compact Disc.

The **RDS** signal is also sent from the PC and even the titles of the music that is playing so that the audio processor adjusts automatically to the

type of music played. Your radio will always sound **BETTER** than the competition. Say goodbye to the old analog links.

If your processor does not have AoIP audio input you can use the **Solidyne ADA102** decoder. If you do not have Internet in transmitting plant an economical **3G / 4G** modem solves the problem.

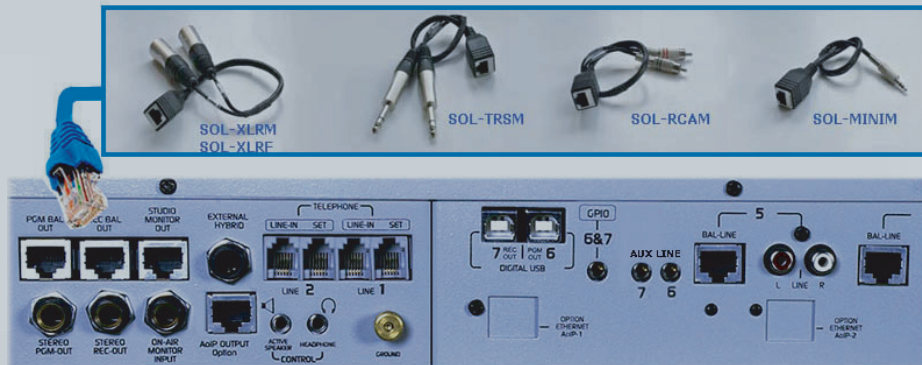
► **AoIP connection between studios using the LAN network of the radio station.**

It will also be possible interconnect with other studio consoles either at the same building or in others, always with digital audio quality.



*DX line of consoles are fully built with modular electronic boards  
In case of failure you will only have to change one module. Fully connectorized; it is very easy.*

► **Very simple connection and a wide range of optional accessories**



The console uses standard audio connectors, but also incorporates the new technology of RJ45-audio with shielded cable.

The use of this new system, compatible with StudioHUB, simplifies the connection between Solidyne products and other modern brands.



► **HD3 Box**

3 handsets distributor + Tally Light + loudspeaker level + Dual Cue + channel Intercom with operator. You can connect up to 3 x HD3. It includes the 5 meters RJ45 cable.

► **HD5-Studio Box**

5 handsets distributor + Tally Light + loudspeakers level + Dual Cue + channel Intercom with operator + Clock + On-Air timer. You can connect up to 2 x HD5. It includes the 5 meters RJ45 cable.



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In case of failure you will only have to change one module. Fully connectorized; it is very easy.*

## ► **Advantages of working with Bluetooth**

**DX 816 and 822 consoles offer this remarkable possibility that other brands don't have.**

It provides significant advantages for journalism because it is possible to connect the console in seconds with the private cell phone of the journalist to interview people whose phone number is confidential and he does not want to reveal.

We can imagine a lawyer who contacts your client or a TV star's representative that gives us a report to one of its stars or multiple situations in which we can get an exclusive story that could not otherwise be achieved.



If we add the fact that the cell phones of Government people or stars of the show business are only attended when the cellphone is called from a known person, we can realize the remarkable power of this Solidyne technology.

## **Technical Specifications** - For in deep specs, please see at: [www.solidynePRO.com](http://www.solidynePRO.com)

### **INPUTS**

5 balanced MIC inputs (XLR) with 48V phantom for 3 MICs (10 MIC inputs in DX822)  
*Fader-1 = MIC1 // Fader-2 = MIC2+MIC4 // Fader-3 = MIC3+MIC5*  
 2 balanced stereo Line inputs (RJ45)  
 2 unbalanced stereo Line inputs (RCA)  
 2 Digital stereo Line inputs (USB) or analog TRS Mini-Jack Line inputs  
 1 unbalanced stereo Tuner input (On Air Monitor) (TRS)  
 Option AoIP = one or two stereo inputs connected at faders 6 & 7 (9 & 10 in DX822)

### **OUTPUTS**

2 bus stereo outputs; PGM & REC, balanced +4 dBm Max Level +28dBu (10K), +20dBm (600 ohms) RJ45 connector  
 2 bus unbalanced stereo outputs (PGM & REC) at 0 dBu, TRS Jack connector  
 2 bus (PGM & REC) Digital stereo USB outputs  
 2 x Mix-Minus output. One internal and other for external phone hybrid  
 4 x stereo monitor outputs for Speaker & HDP at MCR and Studio, muted  
 ON-AIR signal output for Tally; 12V @ 0,15 A  
 2 x optional stereo AoIP Outputs (RJ45) for Ethernet LAN

2 x optional AES3 / SPDIF  
 Optional USB-Data out for multimedia PC control

### **GPIO**

From MIC-1, MIC-2, MIC-3 (+4, 5, 6 in DX822)  
 From Line 6 & 7 (named 9 & 10 in DX822)  
 It closes with open fader

### **FREQUENCY RESPONSE**

20-20.000 Hz +/- 0.5 dB (LIN to PGM)

### **HEADROOM**

24 dB @ LIN to PGM Ref + 4dBu

### **MIC EQUALIZER**

Four Bands MIC EQ with In/Out switch;  
 80 Hz top flat curve, 160 Hz bell shaped, 6,3 kHz bell shaped, 10 kHz top flat  
 Action + 15 dB / -15 dB

### **MIC COMPRESSOR**

Fast attack compressor for levelling all Mics when they are over 0 VU level.  
 20 dB max compression.

### **NOISE**

MIC input, EIN= -120 dBA/150 ohms  
 LINE input, S/N > 75 dBA

### **DYNAMIC RANGE**

From Line to PGM > 90 dBA (CD quality)

### **DISTORTION**

From LINE to PGM out < 0.03 % THD @30-15.000 Hz.

### **TELEPHONE HYBRID**

3 line Active Hybrid (2 land lines + Cellular Phone with Bluetooth 4.0 high quality 16 kHz sampling) Automatic On-Air logic: Audio & Logic are managed from a single 100mm slide fader that performs all the operations in error free mode: Protection: with SIOV Varistors against soft lightning discharges up to 2.000 volts

### **POWER**

External switching power supply 90-240 V @ 50 / 60 Hz [28V@ 1A]

### **DIMENSIONS & WEIGHT**

DX816= 550 (W) x 350 (D) x 130 mm  
 DX822= 700 (W) x 350 (D) x 130 mm  
 Shipment box: 600 (750 in DX822) x 500 x 180 mm  
 Shipment weight: 8 Kg