

## Gymnasium Solution

### Features:

The solution is applicable for various institutes' stadiums to organize sports games and mobile shows. TR2000 which is in charge of preprocessing uses CobraNet transmission protocol, and provides built-in 16\*16 CobraNet matrix. The mic input problem for the podium is easily resolved. CNP888 which is the core element of the system solves the acoustics problem encountered at the stadiums with hundreds of DSP modules. The solution centralizes the configuration of devices used for mobile shows, ensuring the synchronization between mobile sound amplification and fixed sound amplification. Such combination fixes two questions stadiums encountered. First, with CNP core processor, the problem of difficult to build acoustics system is fixed. Second, mobile sound amplification is hard to synchronize with the fixed sound amplification. This can be fixed just by one cable.

### Functions:

1. Fixed sound amplification (Note: With TR2000, the site can be sorted into 16 zones, and the sound in the every zone will be amplified. TR2000 makes up for a deficiency that CNP888 only provides 8 outputs. With TR2000, the sound will be loud and clear all around the site.)
2. Mobile sound amplification (Note: For CNP888 which integrates hundreds of DSP modules, controlling the mobile sound amplification is as easy as pie. You can control the whole amplification system in the server room by adding TR2000 used for a mobile show to the CobraNet network.)
3. Amplification for a show (Note: TR2000 can receive analog signals and is able to process the mobile sound during the show. Meanwhile, TR2000 allows actors to bring their own equipments.)

Note: the above applications can be preset in the CNP888 device, which can be selected anytime through a metope controller.

### Product introduction:

**CNP888:**  
CNP series network audio matrix processors provide powerful digital audio processing functions with advanced SHARC series DSP chip. With a CobraNet port, CNP888 is widely used in the CobraNet network digital audio system. Connecting with the CobraNet network digital audio system, CNP888 will receive and process 8 network Signals, and configure the process settings by the NSP-100 software which delivers an easy and flexible way to control CNP888.

**TR2000:**  
TR2000 is mainly used for network digital audio signal transmission. TR2000 provides you the following features: sending the input signals through CobreNet network port, integrating DSP audio processing arithmetics, including gain controller, high-pass filter, equalizer, mixer, limiter, compression limiter, volume meter, and so on; 48V phantom power which is controlled separately by every input channel; providing dual CobreNet network ports, in case that one port is failure.

Model	Input channel	Output channel
TR2000-1600A	16ch(Line/Mic)	/
TR2000-0016A	/	16ch(Line)
TR2000-0808A	8ch(Line/Mic)	8ch(Line)
TR2000-1204A	12ch(Line/Mic)	4ch(Line)
TR2000-0412A	4ch(Line/Mic)	12ch(Line)
TR2000-02A	/	2ch(Line)
TR2000-22A	2ch(Line/Mic)	2ch(Line)

The table lists all the models of TR2000 series. All the models can simulate to switch matrix with CobraNet signals.

