

# CFM Conference Mixer Product Brief

CFM is an intelligent conference mixer dedicated designed for all forms of conference discussion systems. Using CFM conference mixer, it would be quite a cozy job to create a conference system, just by connecting the external equipments such like microphones and speakers etc.

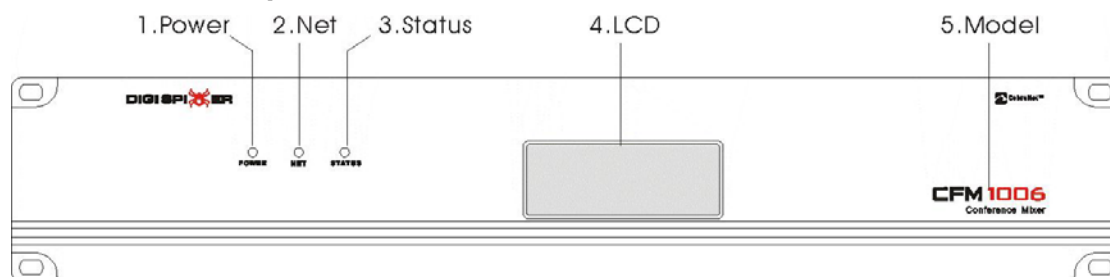
### CFM TYPE LIST

There are two different types of CFM intelligent mixer to meet the demands of different requests of different sorts of conferences. They are: CFM-1006 conference host computer and CFM-800 conference extended unit. The detailed features are shown in the diagram:

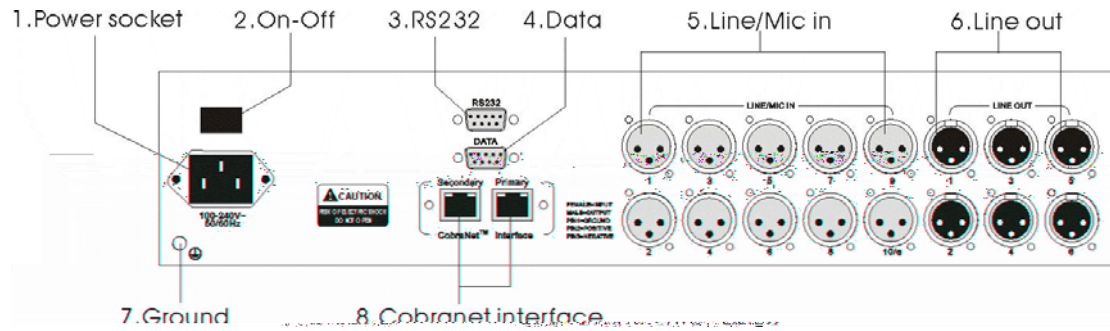
| Type                     | CFM-1006<br>(Main Unit)   | CFM-0800<br>(Expansion Unit)  |
|--------------------------|---|---|
| Analog input             | 10(Balanced XLR Mic/line)   | 8(Balanced XLR Mic/line)  |
| Analog output            | 6 (Balanced XLR line)   | /   |
| Virtual input( Network)  | 8 CobraNet  | /   |
| Virtual output( Network) | 8 CobraNet  | 8 CobraNet  |
| Configuration /Control   | Ethernet / RS232  | Ethernet / RS232  |
| DSP                      | Level control,<br>Noise gate,<br>Filter, EQ,<br>SFC Mixer,<br>priority control (duck),<br>Compressor/ Limiter | Level control,<br>Noise gate,<br>Filter, EQ,<br>SFC Mixer,<br>priority control (duck),<br>Compressor/ Limiter |
| Control software         | NSP-100   | NSP-100   |

### FRONT AND REAR PANEL:

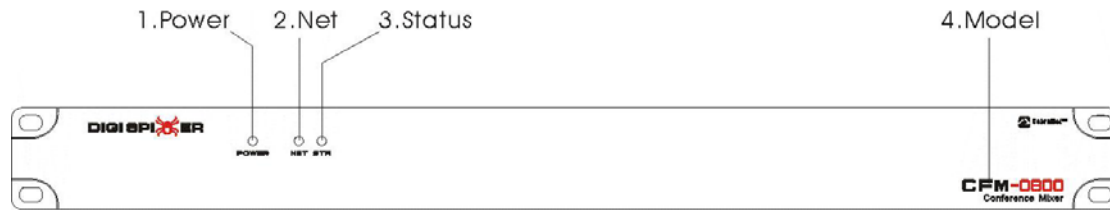
#### CFM-1006 front panel



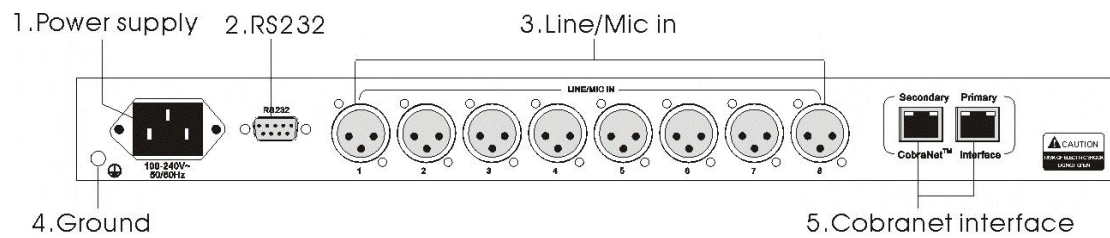
#### CFM-1006 rear panel



**CFM-0800 front panel**



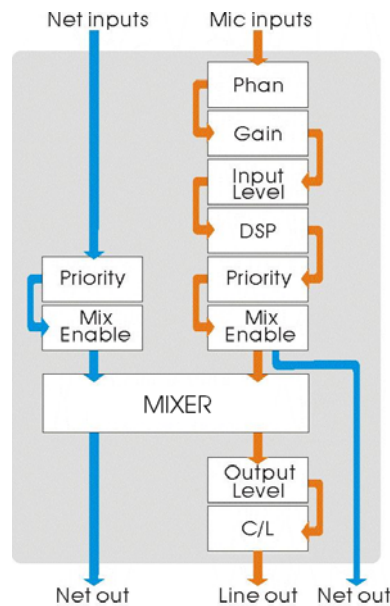
**CFM-0800 rear panel**



**OPERATING PROCESS**

**CFM-1006**

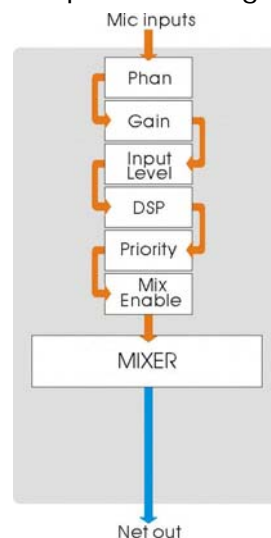
CFM-1006 can provide 8 net input signals and 10 Mic input signals to create a 16\*8 intelligent mixer. The detailed process is shown in the diagram:



Each function module allows for configuration and modification of parameters via NSP-100 software and can download them to the CFM hardware device. CFM-1006 device can be used independently separated from computer at the very moment of successfully downloading and confirming the DSP parameters. The stand alone system structure is as follows

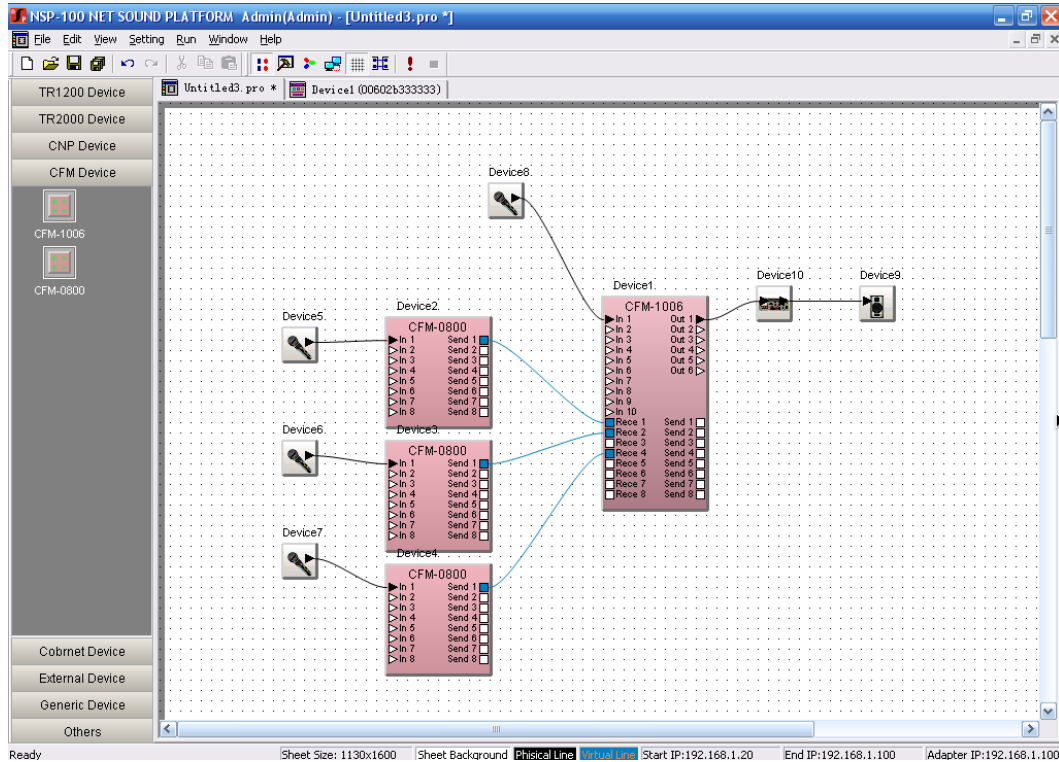
**CFM-0800**

Being different from CFM-1006 conference mixer, CFM-0800 conference extended unit only has local Mic input ports, net input/output ports, but no analog output ports. So, it has to be used together with CFM-1006 device for the extension of Mic input ports. The process of signal working is as follows:

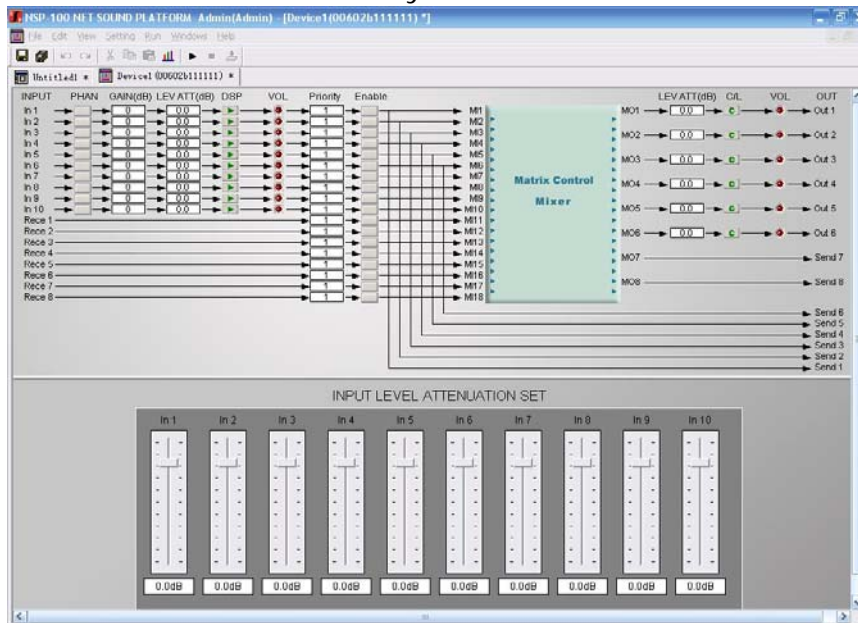


One CFM-1006 can receive eight CobraNet signals from the network. So there are eight CFM-0800 can be connected to the CFM-1008 for expand.

**NSP-100 design**



The DSP function can be controlled by the NSP-100 software.



## BASIC OPERATION

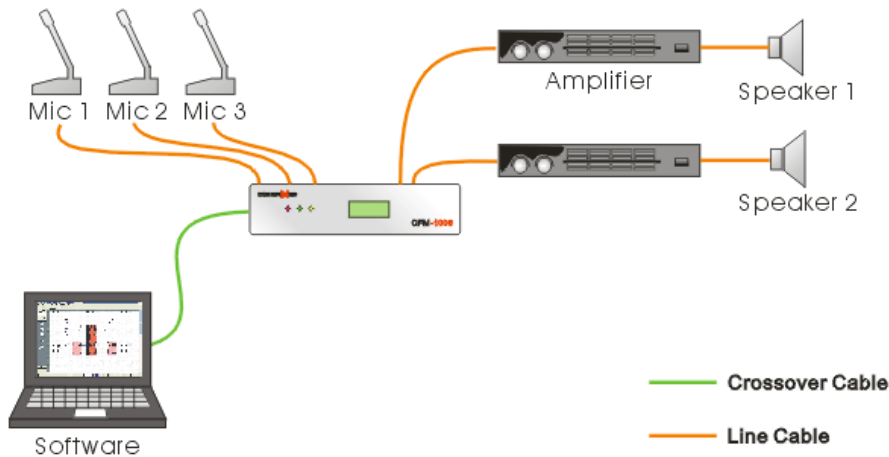
Hardware of CFM conference mixer can provide various forms of audio ports, LED/LCD display and all of the function setup can be customized by the command of NSP-100 software via network. CFM can be used independently separated from NSP-100 software after the very moment of successfully confirming parameter setup. According to different application situation, it can

divide into two modes: stand alone mode and network mode

## STAND ALONE MODE

CFM can work in stand alone mode, controlled by dedicated NSP-100 software. Recommend to use this mode in small conference discussion system (the number of microphone less than 10 and number of mixer less than 6)

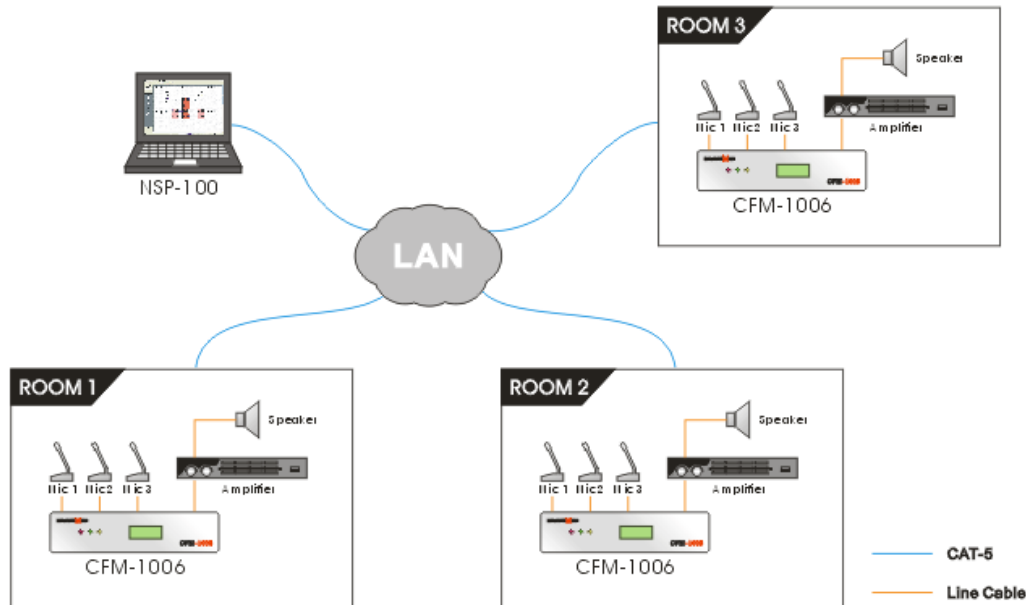
In stand alone, connect the computer network card to the CFM -1006, whose functions are controlled via dedicated software NSP-100, with cross-over cable. The operation is listed below.



Connect the computer network card to the CFM -1006 with cross-over cable, conference microphone to the Line/Mic IN ports at the rear panel and output equipment to the LINE OUT ports. The maximum length of the CAT-5 cable is 100m.

## NETWORK MODE

To satisfy the demands of large conference discussion system and multi-unit boardroom network, more than one CFM can achieve extension of audio I/O channels via internet. The input port and output port can be expanded by adding the CFM-0800 and CFM-1006 to the Ethernet network.



## TECHNIQUE SPECIFICATION

### ANALOG AUDIO SPECIFICATION

- Analog input/output converted to 24bit ,48khz digital audio
- Frequency response +/-0.2dB, 20Hz~20kHz
- Maximum gain: +66 dB, 12 steps
- Phantom power: +48VDC(10mA /input)
- THD plus noise : <0.01% @4dBu 1KHz
- Dynamic range : 103dBA, 101dB
- Maximum input level: +24dBu,balanced differential
- Input impedance: 6.3kOhms
- Maximum output level: +24dBu,balanced differential
- Output impedance: 100 Ohms designed to drive a minimum load of 600 Ohms

### OTHER SPECIFICATION

- Two RJ45 network interface
- One RS232 interface (9-pin D-type)
- Power supply: 100-240V AC,frequency: 40~60hz
- Power consumption: less than 30W
- Device dimension(L×W×H): 482×338×89 (2u); 482x296x44.5 (1u)