# NT110
## DIGITAL AUDIO MIXER

# ■ NT110  Overview

**Compact model of the NT series, which inherits the functions and reliability of our flagship model NT880.**

- EIAJ 19-inch compact rack mount size, with the same NT series' large touch panel which offers intuitive operability.

- Power supply in a redundant configuration, allowing for AC and DC  input

- 2 sets of NT110 can be cascaded to have physical 32ch Fader Console

# ■ NT110　Features-1

- ## Light and Compact Design

  (1) This light and compact product can be installed in OB vans, where space is
      limited, or can be used for portable applications.
  (2) EIAJ 19-inch rack mount size (with exterior removed)
  (3) Multi-channel simultaneous operation with physical 16 ch Faders and
      2 Layers x 3 Banks configuration
  (4) An all-in-one model with built-in analog and digital input/output

- ## Original technologies

  (1) Redundant configuration of audio signal processing and controllers are available for
      the first time in the compact class.
  (2) Built-in audio signal processing with a high dynamic range based on 32-bit floating point operations.
      Mixing can be performed without being conscious of the internal level diagram.

- ## Operational Safety

  (1) Power supply in a redundant configuration, allowing for AC and DC input
  (2) Applications that require high reliability are supported with a redundant configuration of audio signal processing and
      controller-mounted DSP cards (optional).
  (3) Microphone input achieves 36 dB of head room. Sudden excessive input can be resisted.
  (4) The system uses no advanced OS but is composed based on firmware, realizing high stability and quick startup.
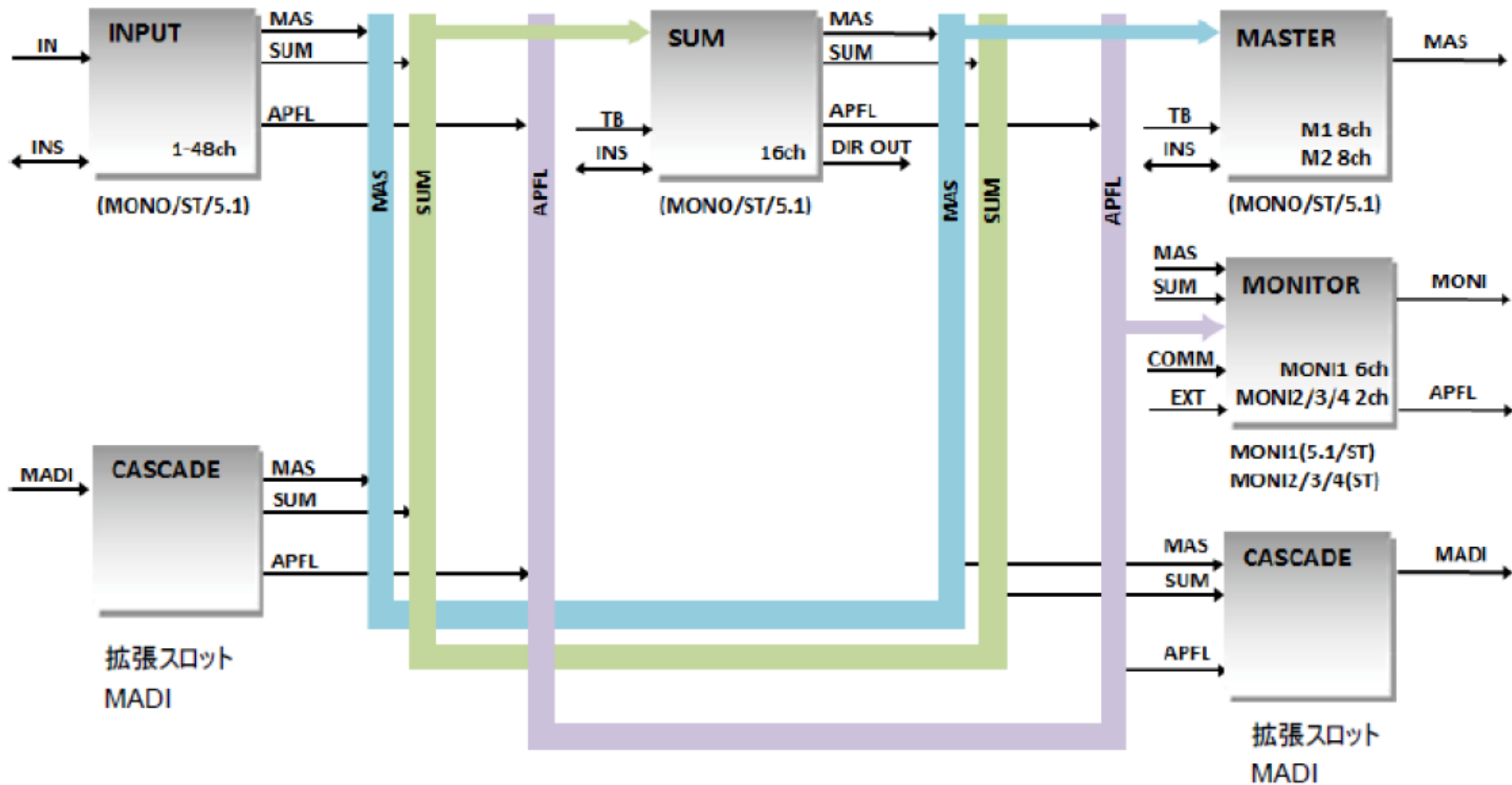
# ■ NT110 Features-2

- **Usability**

  (1) Installation of 16 ch physical faders allows for simultaneous multi-channel
      operation despite its compact size.
  (2) The large touch panel displays many input/output meters for monitoring to
      allow for viewing of the entire mixer.
  (3) The large touch panel offers intuitive operability.
  (4) The inherited operability of the NT series facilitates learning of the
      mixing operation.

- **Efficient and Flexible System**

  (1) Cascade connection (optional) enables addition of input channels that can be
      simultaneously used.
  (2) Two card slots are provided. According to the system,
      necessary audio input/output
      channels or GPIO control units can be added.

# ■ NT110 Audio block diagram

# ■ NT110 Specifications／Option

## > Overall Rating

■ Dimensions (without Side panel)

490(W)×221.5(H)×610(D)mm
(Protruding parts not included)

430(W)×220.5(H)×550(D)mm
(FRONT/SIDE PANEL not included)

| | |
|---|---|
| ■ Weight | 19 kg |
| ■ AC | 100 - 240V, 50/60Hz |
| ■ DC | 12V/14.8V |
| ■ Power Consumption | 150W |
| ■ Operating free-air temperature range | -10~ 40°C |
| ■ Number of faders | 16 Fader |
| ■ Bank/Layer | 3Bank/2Layer |

## > Audio Channels (Fs=48kHz)

| | |
|---|---|
| ■ Master Bus | 2ch (5.1Surround+STEREO) |
| ■ Summing Bus | 16ch (MONO) |
| ■ AFL Bus | 1ch (5.1Surround+STEREO) |
| ■ PFL Bus | 1ch (Stereo) |
| ■ Monitor Out | 1ch (5.1Surround) |
| ■ Headphone Out | 1ch (Stereo) |

## > Audio control parameters

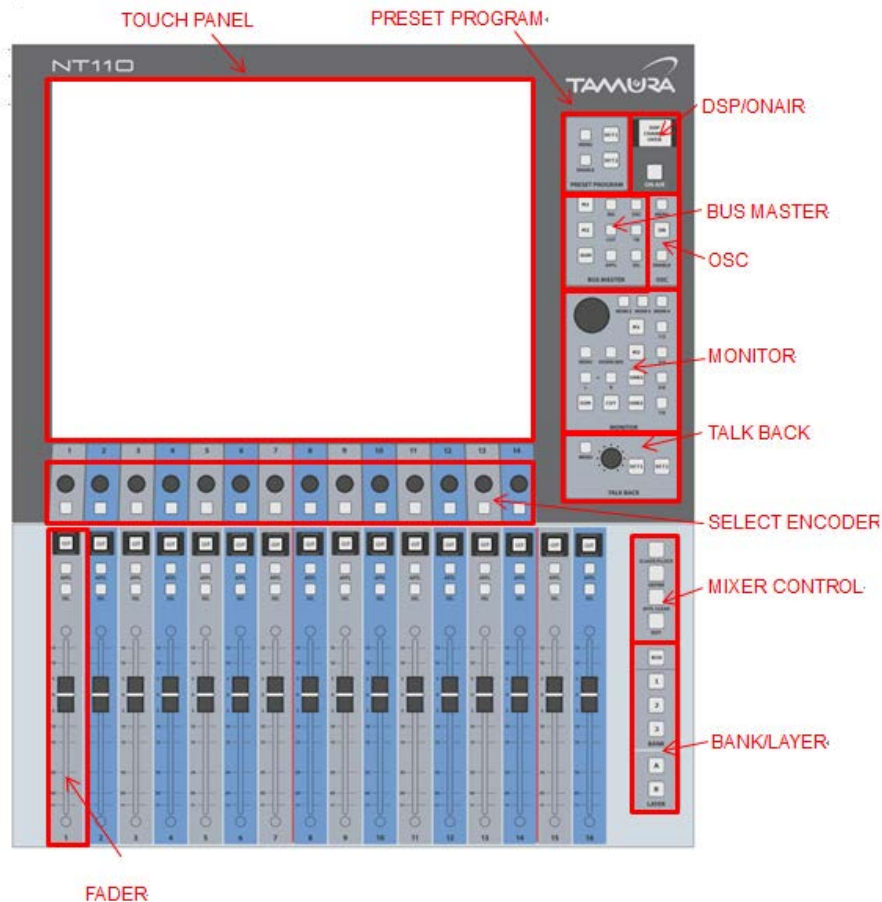| | |
|---|---|
| ■ Audio Reference Input Level | |
| (Analog MIC) | +10 ~ -64dBμ |
| (Analog LINE) | +4dBμ |
| ■ Audio Reference Output Level | |
| (Analog LINE) | +4dBμ |
| ■ Audio Reference Input/Output Level | |
| (Digital) | +10dBFS / -64dBFS |
| ■ HA Headroom | 20~30 dB |

## > Option (Will be released)

■ DSP CARD (BACK UP REDUNDANT DSP)

■ OPTION CARD

AES3id IO CARD（4ch IN + 4ch OUT BNC）

GPIO CARD

MADI CARD（1Coax/1Opt）

DANTE CARD
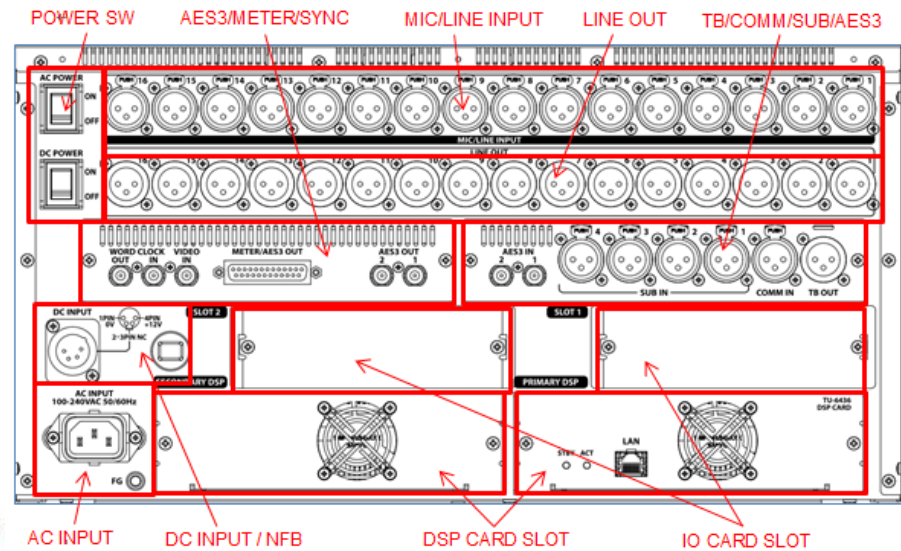
■ Storage case

# ■ NT110 Dimension

# ■ NT110 Description of each parts
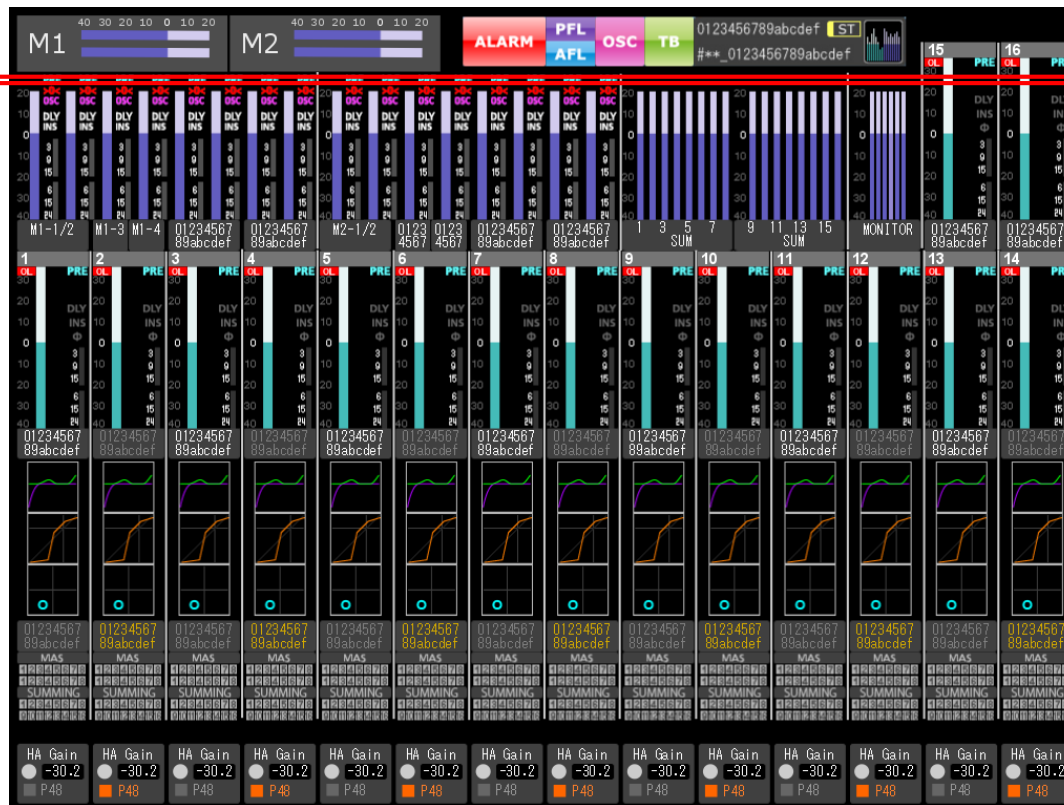
## ■ Front panel



TOUCH PANEL
PRESET PROGRAM
DSP/ONAIR
BUS MASTER
OSC
MONITOR
TALK BACK
SELECT ENCODER
MIXER CONTROL
BANK/LAYER
FADER

## ■ Rear panel



POWER SW
AES3/METER/SYNC
MIC/LINE INPUT
LINE OUT
TB/COMM/SUB/AES3
AC INPUT
DC INPUT / NFB
DSP CARD SLOT
IO CARD SLOT

# ■ NT110 Touch panel

**MIXER STATUS SCREEN**

**START UP SCREEN**



**SELECT AREA**



METER



CHNNEL SETTING



MENU

# TAMURA CORPORATION

(Head Office)
1-19-43, Higashi-Oizumi, Nerima-ku, Tokyo, 178-8511 Japan
Phone : +81-3-3978-2111  Fax : +81-3-3978-0230

(Contact)
International Sales
Sales Department
Broadcom Business Unit
Phone : +81-3-3978-2242  Fax : +81-3-3978-2005

http://www.tamura-ss.co.jp/pro-audio/en/