



Description

The IEDT6400 2-Card Power Amplifier Mainframe is designed to house, supply power to and cool up to two T6400 series power amplifier cards. The mainframe is designed to mount in a 19" equipment rack/cabinet, taking up only 2 rack units (RUs) of space or 3.5" of vertical space. All cooling is front to back, so no additional vertical space is required in the rack for cooling. The mainframe has removable rack mounting ears, which may alternately be placed near the bottom of the mainframe for ease in mounting this unit on a wall, such as in a telephone closet, or on the back for rear rail mounting reinforcement.

The unit will support any combination of T6400 series amplifier cards. This allows mixing cards between dual and single-channel varieties as well as output type (70V or 100V). Each amplifier card is capable of supplying 200 Watts of continuous power to each channel for dual-channel models or 400 Watts of continuous power for single-channel models. Each type of card is available in 70V or 100V models.

The mainframe has connections for audio inputs and loudspeakers, as well as status monitoring outputs for fan speed, amplifier (heatsink) temperature and amplifier status signals. The fan speed and temperature outputs are voltages whose values are proportional to speed or temperature, respectively. The amplifier status signal is configured by an internal jumper to provide either +5VDC logic out when the amplifier is operating properly or a DC voltage that indicates the type of amplifier card installed.

The mainframe has individual input level controls for each of the possible 4 channels. The audio inputs on the back are made via plug-in lug-less compression-type screw terminals. Also, the loudspeaker connections are made via larger scale terminals of the same type. The power amp cards slide in from the front and have individual power switches on the front along with power and signal presence LEDs.

The mainframe also includes IED's integrated loudspeaker line supervision technology. Each loudspeaker line is continuously monitored for ground faults. An LED is illuminated when a ground fault is detected. Additionally, a monitor output is provided for each channel that can be connected to a T9032MT monitor point collector to be integrated with IED's Monitor/Test system.

Specifications

Capacities

Max. Num. of Amplifier Cards.....	2
Max. Num. of Audio Inputs	4
Max. Num. of Audio Loudspeaker Outputs.....	4

Connectors

Balanced Audio Inputs (4)	Plug-in Lugless Compression-Type Screw Terminal Blocks
Loudspeaker Connections (2)	Plug-in Lugless Compression-Type Screw Terminal Blocks
Status Options	Amp Card Fan Speed Voltage, Amplifier Temperature Voltage, Amplifier Status Logic
AC Power Cord	Belden / Volex 17250 (for 120VAC Operation) Belden / Volex 17850 (for 240VAC Operation)

Controls & Indicators

Level Controls (4).....	Four Detented Potentiometers
Ground Fault Indicator LEDs.....	4

AC Power Requirements

Quiescent Power (2 cards, includes fans).....	93 Watts
1/8 Power Output (Speech / Voice Announcement Input).....	215 Watts
Full Power Output (Sine Wave Input)	1025 Watts
Thermal Load	
Idle	316 BTU/hr
1/8 Power Output.....	731 BTU/hr

Mechanical

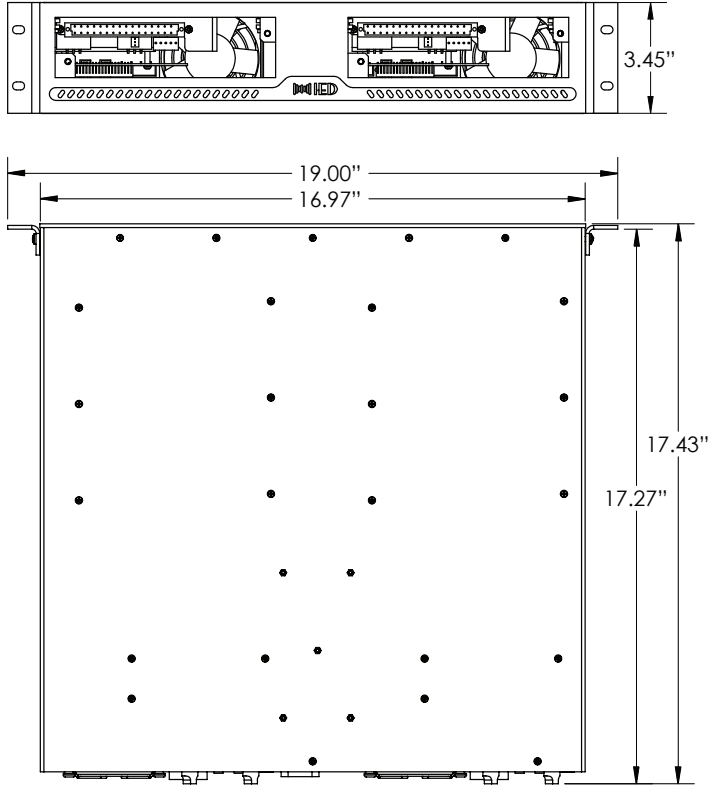
Dimensions (with rack ears)	19" W x 3.45" H x 17.43" D (483mm W x 89mm H x 432mm D)
Mounting Depth	17.5" (442mm)
<i>For proper cable clearance and fan operation, add a minimum of 2" (51mm) clearance behind the mainframe</i>	
Weight (empty).....	14lbs (6.35kg)
Weight (with 2 cards)	22lbs (10kg)
Cooling.....	Two Fans, One Per Amplifier
Mounting Ear Location Options.....	3 (Front, Rear, & Bottom)

Environmental Specifications

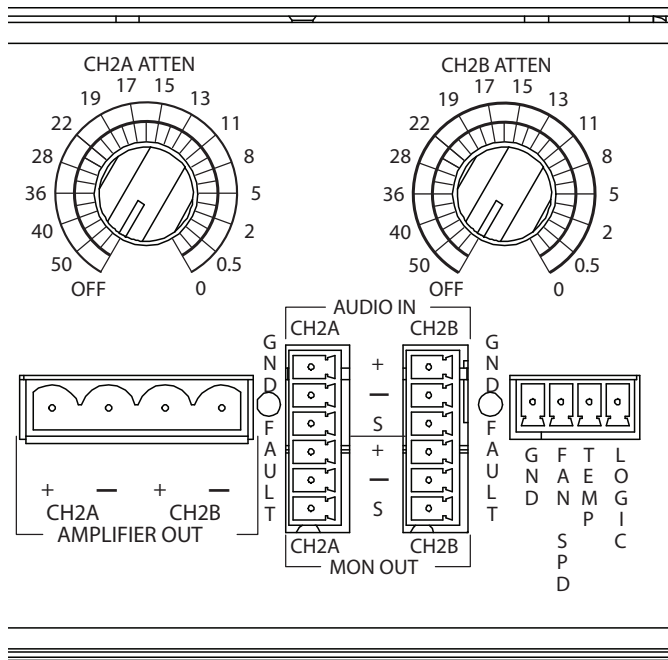
Operating Temperature Range	32°F – 122°F (0°C – 50°C)
Storage Temperature Range	-40°F – 158°F (-40°C – 70°C)

Power Amplifier Card Options

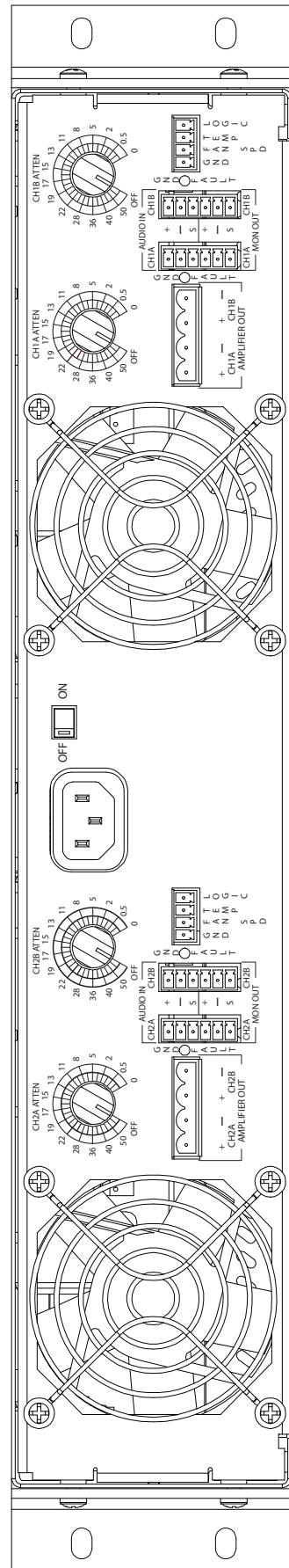
T6411	Single 400W, 100V Power Amplifier Card
T6412	Dual 200W, 100V Power Amplifier Card
T6471	Single 400W, 70.7V Power Amplifier Card
T6472	Dual 200W, 70.7V Power Amplifier Card



IEDT6400 Dimensions
 (shown without cards installed)



IEDT6400 Connection Detail
 (typical of 2)



IEDT6400 Rear View