dbx® PROFESSIONAL PRODUCTS

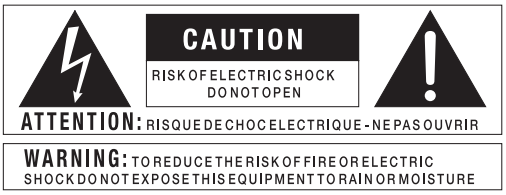
ZonePro

Digital Zone Processors

640, 640m
641, 641m
1260, 1260m
1261, 1261m

Installation Guide

IMPORTANT SAFETY INFORMATION



The symbols shown above are internationally accepted symbols that warn of potential hazards with electrical products. The lightning flash with arrowpoint in an equilateral triangle means that there are dangerous voltages present within the unit. The exclamation point in an equilateral triangle indicates that it is necessary for the user to refer to the owner's manual.

These symbols warn that there are no user serviceable parts inside the unit. Do not open the unit. Do not attempt to service the unit yourself. Refer all servicing to qualified personnel. Opening the chassis for any reason will void the manufacturer's warranty. Do not get the unit wet. If liquid is spilled on the unit, shut it off immediately and take it to a dealer for service. Disconnect the unit during storms to prevent damage.

SAFETY INSTRUCTIONS

NOTICE FOR CUSTOMERS IF YOUR UNIT IS EQUIPPED WITH A POWER CORD.

WARNING: THIS APPLIANCE SHALL BE CONNECTED TO A MAINS SOCKET OUTLET WITH A PROTECTIVE EARTHING CONNECTION.

The cores in the mains lead are coloured in accordance with the following code:

GREEN and YELLOW - Earth BLUE - Neutral BROWN - Live

As colours of the cores in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

- The core which is coloured green and yellow must be connected to the terminal in the plug marked with the letter E, or with the earth symbol, or coloured green, or green and yellow.
- The core which is coloured blue must be connected to the terminal marked N or coloured black.
- The core which is coloured brown must be connected to the terminal marked L or coloured red.

This equipment may require the use of a different line cord, attachment plug, or both, depending on the available power source at installation. If the attachment plug needs to be changed, refer servicing to qualified service personnel who should refer to the table below. The green/yellow wire shall be connected directly to the units chassis.

CONDUCTOR		WIRE COLOR	
		Normal	Alt
L	LIVE	BROWN	BLACK
N	NEUTRAL	BLUE	WHITE
E	EARTH GND	GREEN/ YEL	GREEN

WARNING: If the ground is defeated, certain fault conditions in the unit or in the system to which it is connected can result in full line voltage between chassis and earth ground. Severe injury or death can then result if the chassis and earth ground are touched simultaneously.

If you want to dispose this product, do not mix it with general household waste. There is a separate collection system for used electronic products in accordance with legislation that requires proper treatment, recovery and recycling.

Private household in the 25 member states of the EU, in Switzerland and Norway may return their used electronic products free of charge to designated collection facilities or to a retailer (if you purchase a similar new one).

For Countries not mentioned above, please contact your local authorities for a correct method of disposal.

By doing so you will ensure that your disposed product undergoes the necessary treatment, recovery and recycling and thus prevent potential negative effects on the environment and human health.

WARNING FOR YOUR PROTECTION READ THE FOLLOWING:

KEEP THESE INSTRUCTIONS

HEED ALL WARNINGS

FOLLOW ALL INSTRUCTIONS

THE APPARATUS SHALL NOT BE EXPOSED TO DRIPPING OR SPLASHING LIQUID AND NO OBJECT FILLED WITHI LIQUID, SUCH AS VASES, SHALL BE PLACED ON THE APPARATUS.

CLEAN ONLY WITH A DRY CLOTH.

DO NOT BLOCK ANY OF THE VENTILATION OPENINGS. INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

DO NOT INSTALL NEAR ANY HEAT SOURCES SUCH AS RADIATORS, HEAT REGISTERS, STOVES, OR OTHER APPARATUS (INCLUDING AMPLIFIERS) THAT PRODUCE HEAT.

ONLY USE ATTACHMENTS/ACCESSORIES SPECIFIED BY THE MANUFACTURER.

UNPLUG THIS APPARATUS DURING LIGHTNING STORMS OR WHEN UNUSED FOR LONG PERIODS OF TIME.

Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or third prong are provided for your safety. If the provided plug does not fit your outlet, consult an electrician for replacement of the obsolete outlet.

Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

Use only with the cart stand, tripod bracket, or table specified by the manufacture, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

POWER ON/OFF SWITCH: If the equipment has a Power switch, the Power switch used in this piece of equipment DOES NOT break the connection from the mains.

MAINS DISCONNECT: The plug shall remain readily operable. For rack-mount or installation where plug is not accessible, an all-pole mains switch with a contact separation of at least 3 mm in each pole shall be incorporated into the electrical installation of the rack or building.

FOR UNITS EQUIPPED WITH EXTERNALLY ACCESSIBLE FUSE RECEPTACLE: Replace fuse with same type and rating only.

MULTIPLE-INPUT VOLTAGE: This equipment may require the use of a different line cord, attachment plug, or both, depending on the available power source at installation. Connect this equipment only to the power source indicated on the equipment rear panel. To reduce the risk of fire or electric shock, refer servicing to qualified service personnel or equivalent.

If connected to 240V supply, a suitable CSA/UL certified power cord shall be used for this supply.

IMPORTANT SAFETY INFORMATION

DECLARATION OF CONFORMITY

Manufacturer's Name: dbx Professional Products
Manufacturer's Address: 8760 S. Sandy Parkway
Sandy, Utah 84070, USA

declares that the product:

Product name: dbx 640m, dbx641m
Note: Product name may be suffixed by the EU.

Product option: None

conforms to the following Product Specifications:

Safety: IEC 60065 (7th ed. 2001)

EMC: EN 55013 (2001+A1)
EN 55020 (1998)

Supplementary Information:

The product herewith complies with the requirements of the Low Voltage Directive 2006/95/EC and the EMC Directive 2004/108/EC.

Vice-President of Engineering
8760 S. Sandy Parkway
Sandy, Utah 84070, USA
Date: April 6, 2009

European Contact: Your local dbx Sales and Service Office or

Harman Music Group
8760 South Sandy Parkway
Sandy, Utah 84070, USA
Ph: (801) 566-8800
Fax: (801) 568-7583

DECLARATION OF CONFORMITY

Manufacturer's Name: dbx Professional Products
Manufacturer's Address: 8760 S. Sandy Parkway
Sandy, Utah 84070, USA

declares that the product:

Product name: dbx1260m, dbx1261m
Note: Product name may be suffixed by the EU.

Product option: None

conforms to the following Product Specifications:

Safety: IEC 60065 (7th ed. 2001)

EMC: EN 55013 (2001+A1)
EN 55020 (1998)

Supplementary Information:

The product herewith complies with the requirements of the Low Voltage Directive 2006/95/EC and the EMC Directive 2004/108/EC.

Vice-President of Engineering
8760 S. Sandy Parkway
Sandy, Utah 84070, USA
Date: April 6, 2009

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Fax: (801) 568-7583

ELECTROMAGNETIC COMPATIBILITY

This unit conforms to the Product Specifications noted on the **Declaration of Conformity**. Operation is subject to the following two conditions:

- this device may not cause harmful interference, and
- this device must accept any interference received, including interference that may cause undesired operation.

Operation of this unit within significant electromagnetic fields should be avoided.

- use only shielded interconnecting cables.

U.K. MAINS PLUG WARNING

A molded mains plug that has been cut off from the cord is unsafe. Discard the mains plug at a suitable disposal facility.

NEVER UNDER ANY CIRCUMSTANCES SHOULD YOU INSERT A DAMAGED OR CUT MAINS PLUG INTO A 13 AMP POWER SOCKET.

Do not use the mains plug without the fuse cover in place. Replacement fuse covers can be obtained from your local retailer. Replacement fuses are 13 amps and MUST be ASTA approved to BS1362.

Section 1 - Introduction

The ZonePRO™ family of Digital Zone Processors consists of eight devices with different functionality. Each device, with optional control from an extensive range of Zone Controllers, represents an inexpensive and quickly-deployed solution for a diverse range of commercial audio applications. The Configuration Wizard guides you through the step-by-step configuration process, ensuring that you go from requirements to solution in just a few mouse clicks.

	Inputs	Outputs	Front Panel Control	Mic Preamps	S/PDIF	Ethernet	Mix Functionality	ANC
1260m	12	6	✓	6	✓	✓	✓	✓
1260	12	6	✓	2	✓	✓	✓	
1261m	12	6		6	✓	✓	✓	✓
1261	12	6		2	✓	✓	✓	
640m	6	4	✓	4		✓	✓	✓
640	6	4	✓	2				
641m	6	4		4		✓	✓	✓
641	6	4		2				

1.2 Service Contact Info

If you require technical support, contact dbx Technical Support. Be prepared to accurately describe the problem. Know the serial number of your device - this is printed on a sticker attached to the chassis. If you have not already taken the time to fill out your warranty registration card and send it in, please do so now. You may also register online at www.dbxpro.com.

Before you return a product to the factory for service, we recommend you refer to the manual. Make sure you have correctly followed installation steps and operation procedures. For further technical assistance or service, please contact our Technical Support Department at (801) 568-7660 or visit www.dbxpro.com. If you need to return a product to the factory for service, you MUST first contact Technical Support to obtain a Return Authorization Number.

No returned products will be accepted at the factory without a Return Authorization Number.

Please refer to the Warranty information on the following page, which extends to the first end-user. After expiration of the warranty, a reasonable charge will be made for parts, labor, and packing if you choose to use the factory service facility. In all cases, you are responsible for transportation charges to the factory. dbx will pay return shipping if the unit is still under warranty.

Use the original packing material if it is available. Mark the package with the name of the shipper and with these words in red: DELICATE INSTRUMENT, FRAGILE! Insure the package properly. Ship prepaid, not collect. Do not ship parcel post.

1.3 Warranty

This warranty is valid only for the original purchaser and only in the United States.

1. The warranty registration card that accompanies this product must be mailed within 30 days after purchase date to validate this warranty. You can also register online at www.dbxpro.com. Proof-of-purchase is considered to be the responsibility of the consumer. A copy of the original purchase receipt must be provided for any warranty service.

2. dbx warrants this product, when bought and used solely within the U.S., to be free from defects in materials and workmanship under normal use and service.

3. dbx liability under this warranty is limited to repairing or, at our discretion, replacing defective materials that show evidence of defect, provided the product is returned to dbx WITH RETURN AUTHORIZATION from the factory, where all parts and labor will be covered up to a period of two years. A Return Authorization number must first be obtained from dbx. The company shall not be liable for any consequential damage as a result of the product's use in any circuit or assembly.

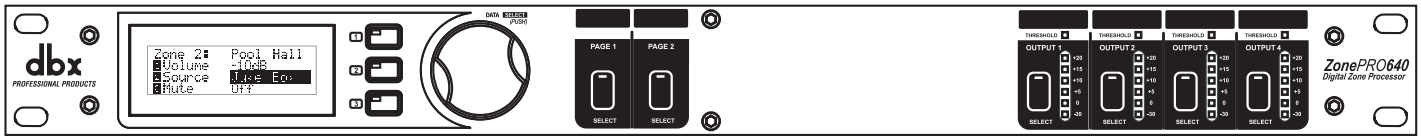
4. dbx reserves the right to make changes in design or make additions to or improvements upon this product without incurring any obligation to install the same additions or improvements on products previously manufactured.

5. The foregoing is in lieu of all other warranties, expressed or implied, and dbx neither assumes nor authorizes any person to assume on its behalf any obligation or liability in connection with the sale of this product. In no event shall dbx or its dealers be liable for special or consequential damages or from any delay in the performance of this warranty due to causes beyond their control.

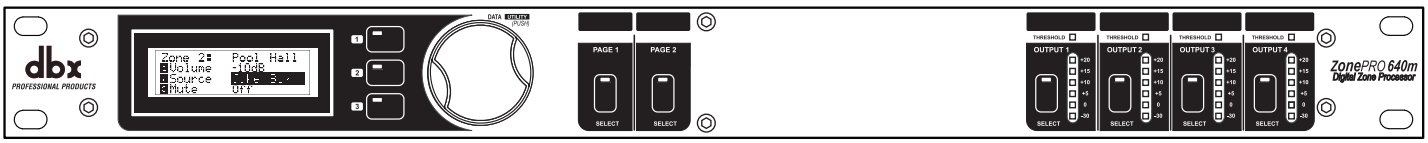
Section 2 - Getting Started

2.1 640/640m, 1260/1260m Front Panels

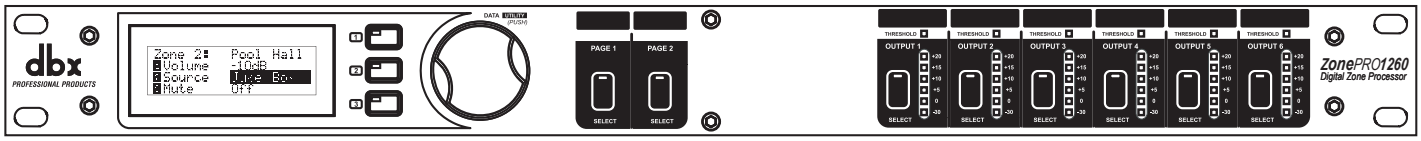
640 Front Panel



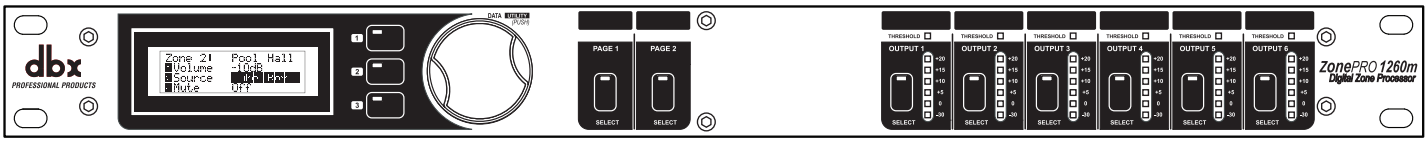
640m Front Panel



1260 Front Panel



1260m Front Panel



Front Panel LCD

Information relating to parameters such as source selection, page steering, zone volumes and mutes.

Parameter Select Buttons 1-3

Allow selection of parameters.

Data Wheel
The Data wheel is used to select and edit parameter values.

Page Buttons
Allow paging microphone path selection and page steering.

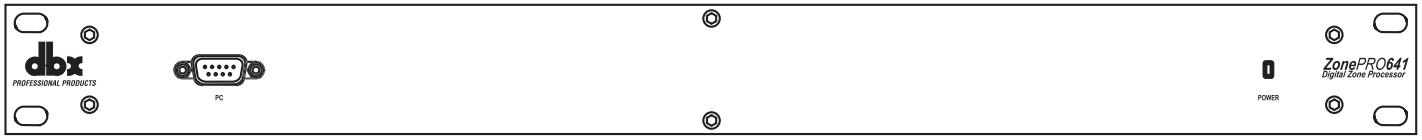
Output Meter
Six-segment output meter representing -30dBu to +20dBu.

Output Select Button
Allows selection of output for front panel control.

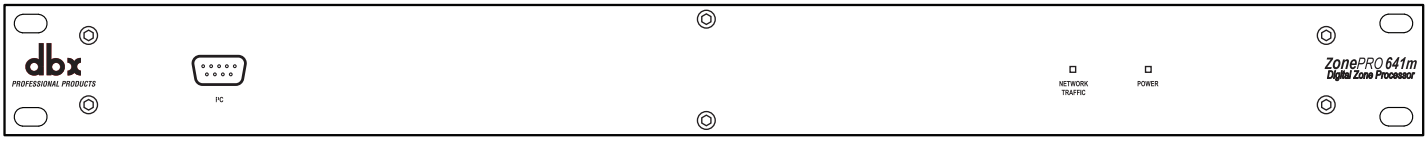
Threshold Indicator
Indicates that the threshold level has been exceeded within the output Compressor, Auto Gain Control or Limiter sections (and therefore gain reduction may be taking place).

2.2 641/641m, 1261/1261m Front Panels

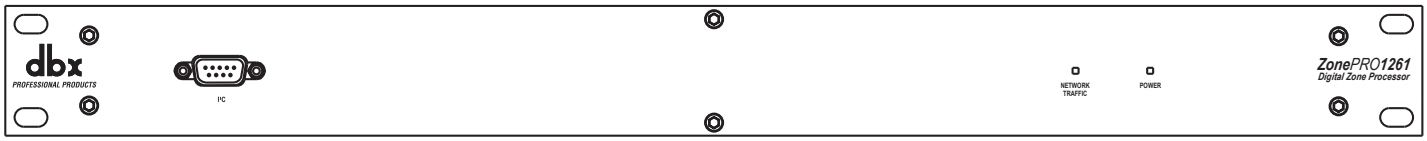
641 Front Panel



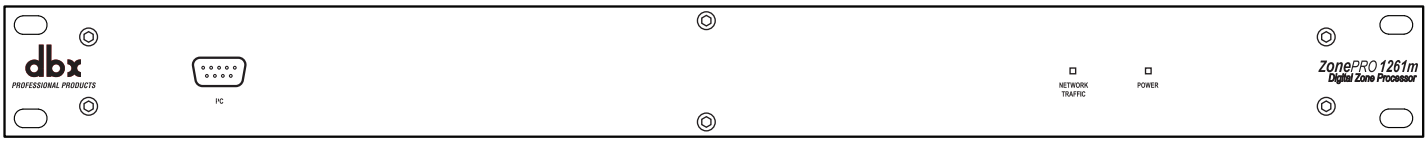
641m Front Panel



1261 Front Panel



1261m Front Panel



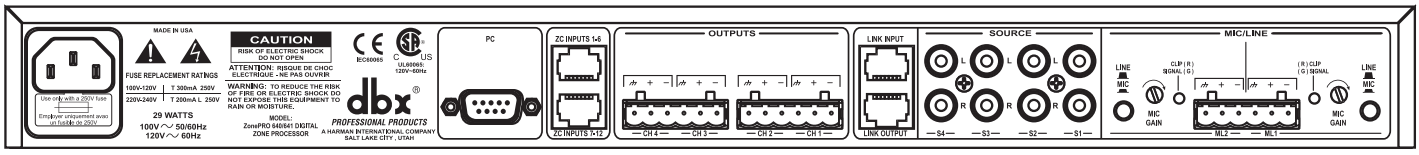
PC Connection
This DB-9 connection is used to communicate to the PC via RS-232 protocol.

Power LED
This LED (when lighted), indicates that the ZonePro 641 is currently powered.

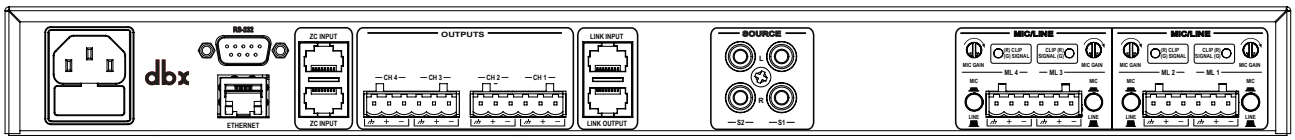
Network Traffic (641m, 1261, and 1261m only)
This LED (when lighted), indicates that network traffic is present.

2.3 640/641, 640m/641m Rear Panel

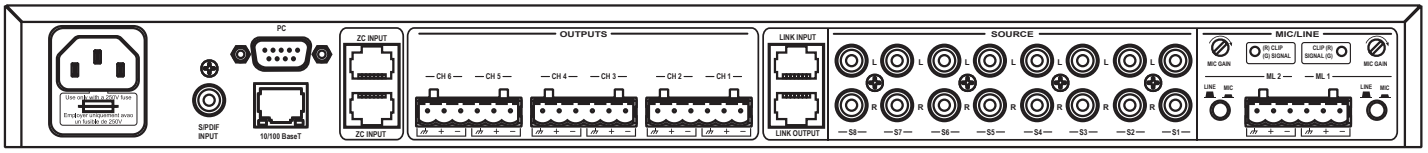
640/641 Rear Panel



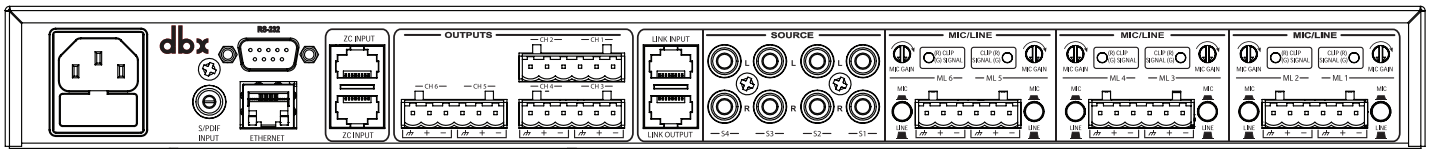
640m/641m Rear Panel



1260/1261 Rear Panel



1260m/1261m Rear Panel



Power Connector

IEC power connector

RS-232 Port / PC Connector

Serial port for configuration, control, monitoring and third party control.

S/PDIF Input

Digital audio input for up to two channels.

Ethernet Connector (640m, 641m, 1260m, and 1261m only)
Ethernet connector for configuration, control, monitoring and third party control.

ZC Ports
Allow connection of up to 12 ZC controllers (six per port) for control of ZonePRO parameters.

Analog Outputs
Balanced connections for analog audio outputs.

Link Input/Output
Allows duplication of the first six audio channels to another ZonePRO device in applications where additional output zones are required.

RCA Inputs
Mono-summed pairs of unbalanced RCA audio inputs.

Mic/Line Inputs
Switchable mic/line audio inputs.

Mic Gain Control
Allows microphone gain control.

Mic/Line Switch
Allows configuration for microphone or line level signals.

Mic/Line Connector
The input section provides two Euroblock connectors for mic/line inputs.

Signal/Clip LED
Indicates signal present or clip.

Section 3 - Wiring

3.1 ZonePro Wiring

Zone Controller Installation

The installation of the Zone Controllers MUST be accomplished with the use of cable which is rated VW-1 or higher. Common NEC designations which meet this rating include: CMP, CMR, CMG, CM and CMX.

ZC-1 - The ZC-1 is a programmable zone controller that allows input or output volume level control from a wall panel.

ZC-2 - The ZC-2 is a programmable zone controller that allows input or output volume level and mute control from a wall panel.

ZC-3 - The ZC-3 allows wall panel routing and Actions selection for the SC devices.

ZC-4 - The ZC-4 provides contact closure routing and Actions selection for room combining or fire safety applications.

ZC-Fire - The ZC-Fire is the interface to generic fire alarm relays. When fire alarm activates, the general purpose relay can typically be programmed to close if normally open or vices-versa. The ZC-fire interface unit monitors the state of the relay (n.o. or n.c.) and upon the state of change, notifies the SC 32/64, which then mutes its outputs.

ZC-6 - The ZC-6 is a push-button up and down input or output volume controller.

ZC-7 - The ZC-7 allows Actions selection for the SC devices.

ZC-8 - The ZC-8 is used for a combination of input or output volume up/down, and four position source/program select.

ZC-9 - The ZC-9 allows wall panel routing and Actions selection for the SC devices.

ZC-BOB - The ZC-BOB allows parallel or home run cabling of the Zone Controllers.

Diagram A

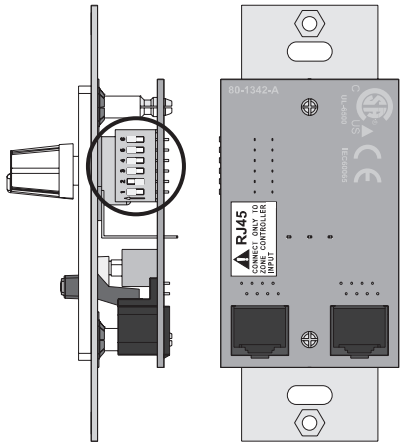


Diagram B

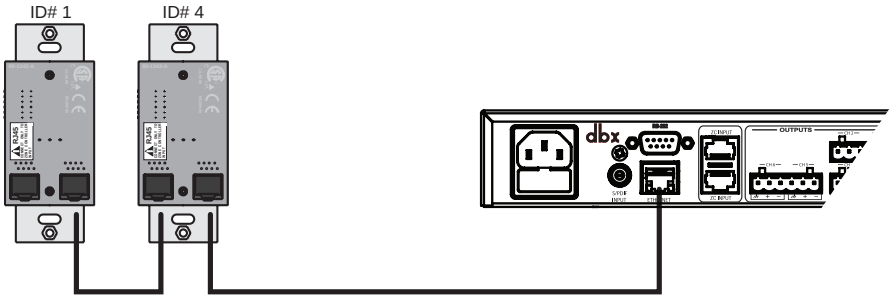
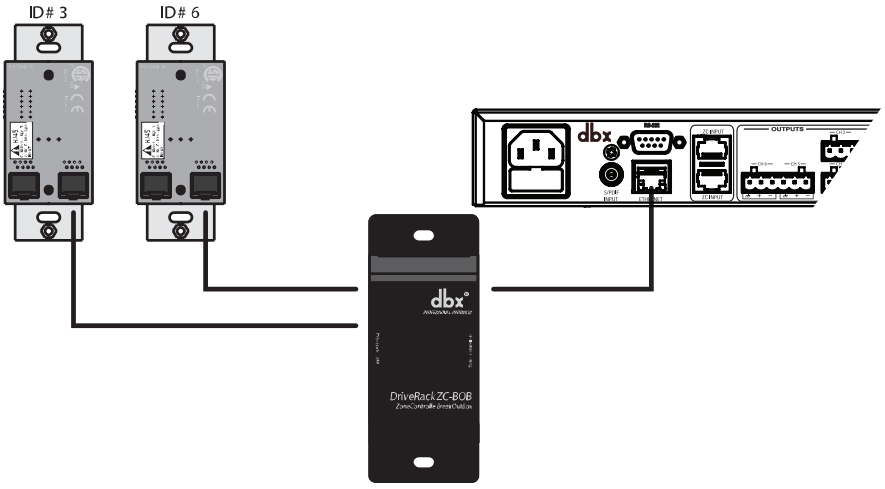


Diagram C



Cable Specification: EIA/TIA 568A Standard (pin to pin) 24 AWG wire

RJ-45 (8-Position)		RJ-45 (8-Position)	
1	White/Green	1	-VREF
2	Green	2	-Dip 1
3	White/Orange	3	-Dip 2
4	Blue	4	-Dip 3
5	White/Blue	5	-Dip 4
6	Orange	6	-Dip 5
7	White/Brown	7	-Dip 6
8	Brown	8	-GND

Diagram A

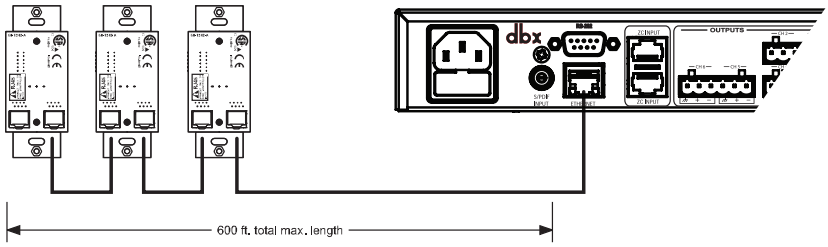


Diagram B

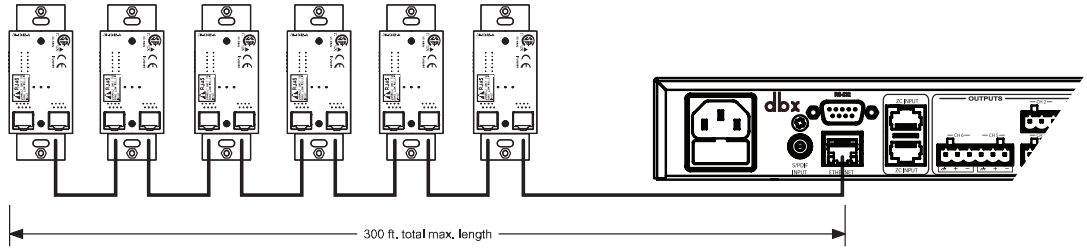
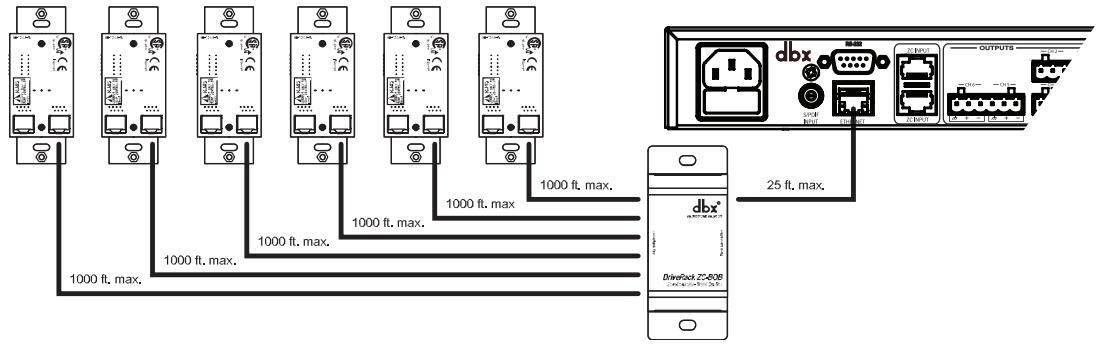


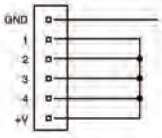
Diagram C



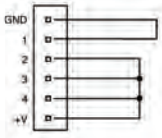
ZC-4 wiring diagram.

This Diagram shows all 16 possible combinations for the ZC-4 controller when used as a binary Scene selector

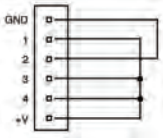
The P2 Jumper must be removed for use with the SC 32 / 64.



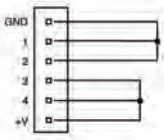
Binary 0



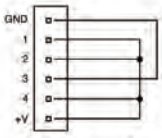
Binary 1



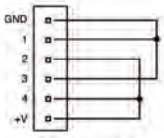
Binary 2



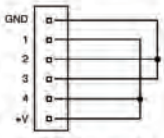
Binary 3



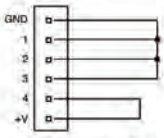
Binary 4



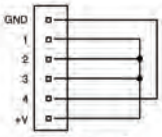
Binary 5



Binary 6



Binary 7



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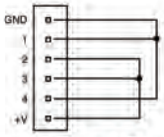

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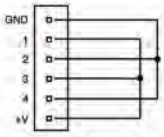
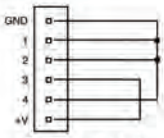
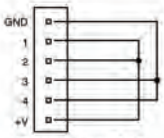


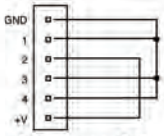
Binary 10



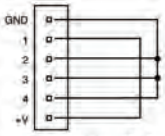
Binary 11



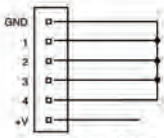
Binary 12



Binary 13



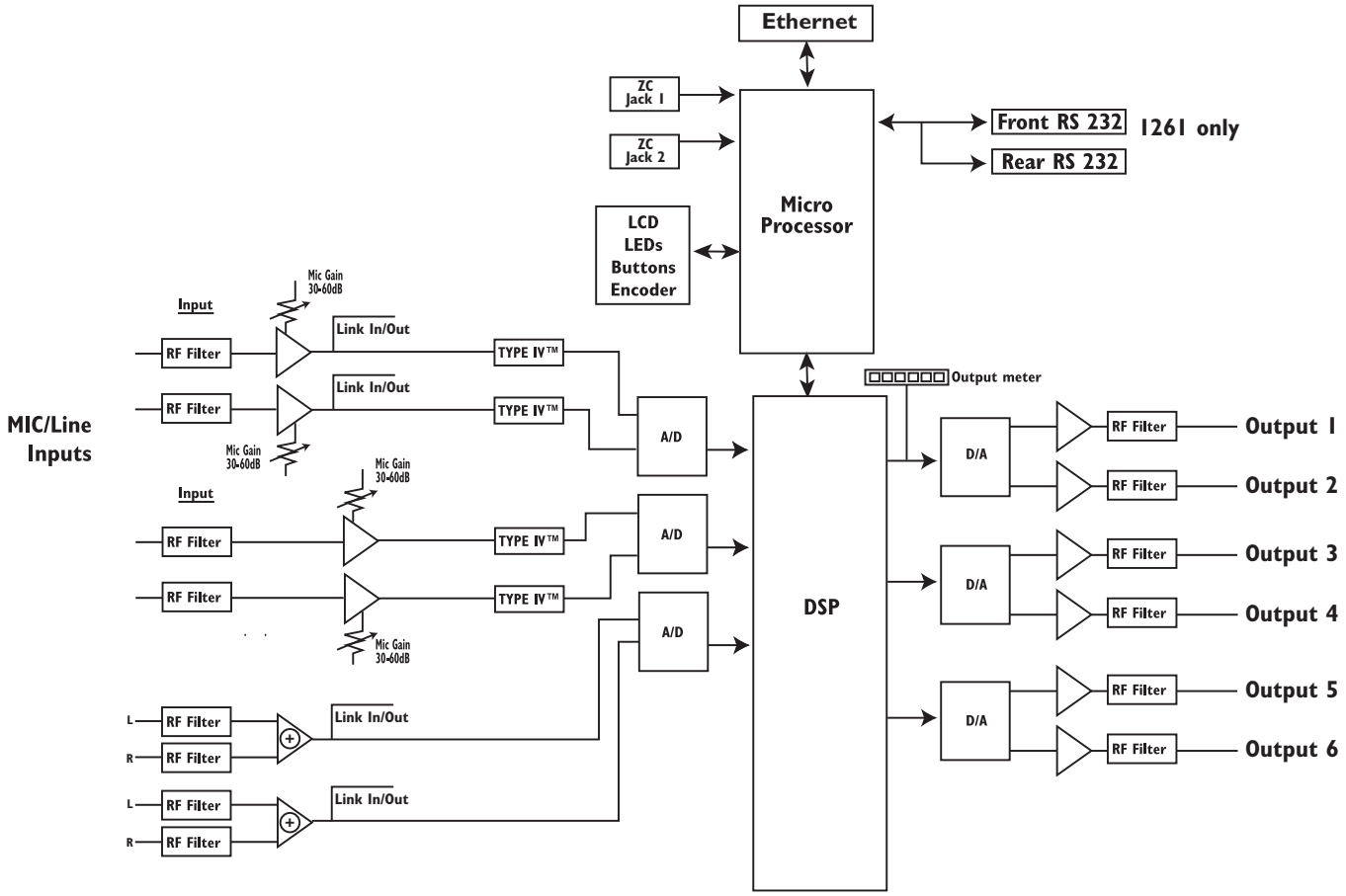
Binary 14



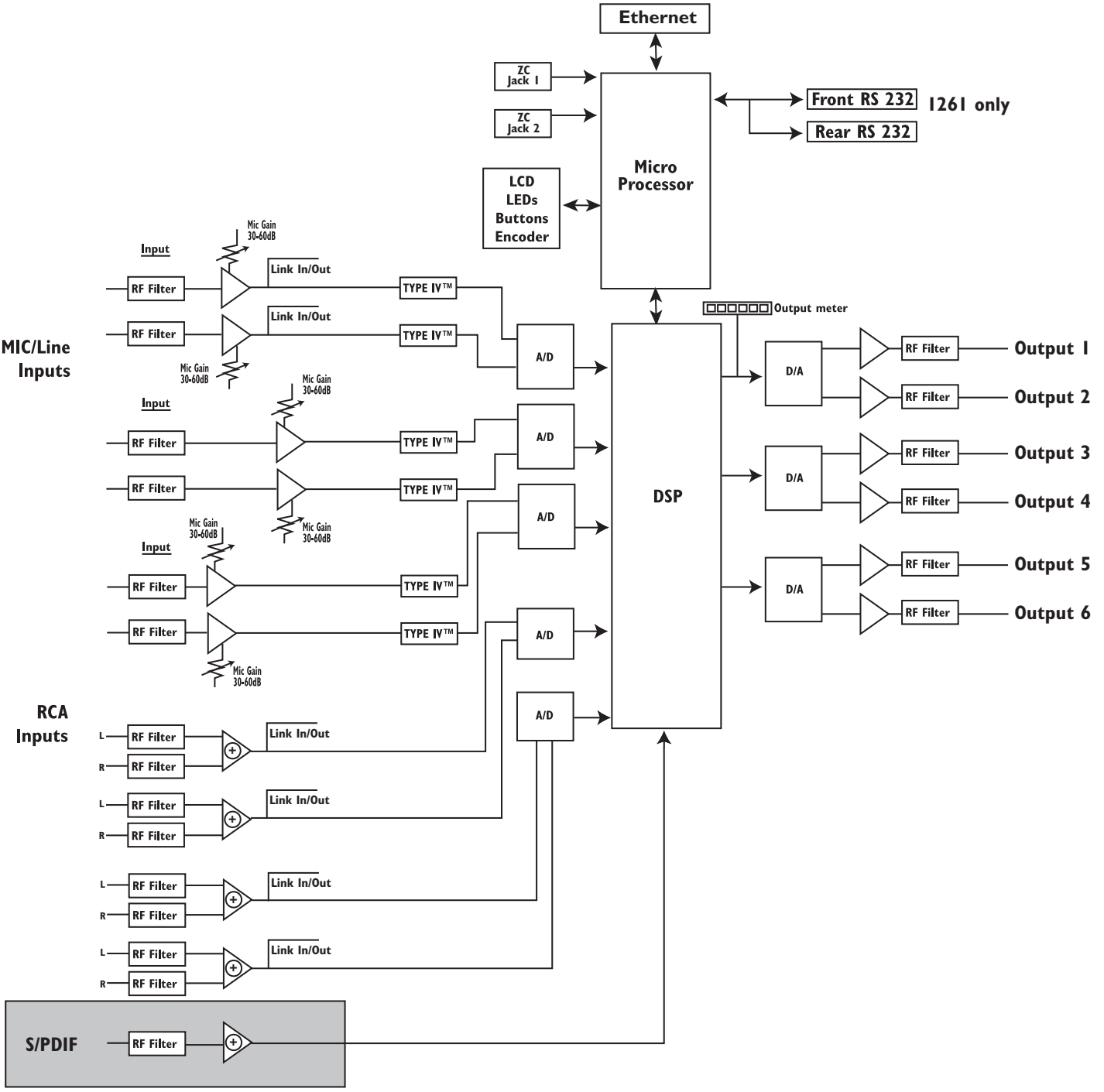
Binary 15

Section 4 - Appendix

4.1 ZonePro 640m/641m Block Diagram



4.2 ZonePro 1260m/1261m Block Diagram



Section 4 - Technical Specifications

640/641

Analog Inputs:

Number of Inputs:	(6 Total) (2) Switchable line or mic inputs (4) RCA Source
Connectors:	Euroblock(Line and Mic) RCA (Source)
Type:	Electronically balanced/RF filtered
Impedance:	> 50 kΩ Balanced, >75 kΩ Unbalanced
Max input line level:	+20 dBu Mic/Line, +12 dBu RCA
CMRR:	> 40 dB, typically >55 dB @ 1 kHz
Mic Pre gain:	30 to 60 dB
Mic EIN:	< 118 dB, 22 Hz-22 kHz, 150 Ω
Mic Phantom Power:	15 V

Analog Outputs:

Number of Outputs:	(4)
Connectors:	Euroblock
Type:	Electronically balanced, RF filtered
Impedance:	120 Ω balanced, 60 Ω unbalanced
Max Output Level:	+20dBu

A/D Performance:

Type:	dbx Type IV™ conversion system
Dynamic Range line:	>113 dB A-weighted, >110 dB unweighted
Type IV dynamic range:	>119 dB, A-weighted, 22kHz BW
	>117 dB, unweighted, 22kHz BW
Sample Rate:	48 kHz

D/A Performance:

Dynamic Range:	112 dB A-weighted, 109dB unweighted

System Performance:

Dynamic Range:	>109 dB A-weighted, >106 dB unweighted,
THD+N:	0.003% typical at +4 dBu, 1 kHz, 0 dB gain
Frequency Response:	20 Hz – 20 kHz, +/- 0.5 dB
Interchannel Crosstalk:	>80 dB typical
Crosstalk input to output:	>80 dB
Propagation Delay:	0.6 msec
Operating voltage:	100 VAC, 50/60Hz, 120 VAC, 60 Hz, 230 VAC 50/60 Hz
Power Requirements:	29 Watts

Physical:

Weight: 6.8 lbs.(3.1 kg) Shipping weight 8.8 lbs. (4.0 kg)
Dimensions: 1.75" H x 7.75" D x 19" W

1260/1261

Analog Inputs:

Number of Inputs:	12 Total (2) Switchable mic or line, (8) RCA, and (1) S/PDIF
Connectors:	Euroblock (Line and Mic), RCA (Source) and RCA (S/PDIF)
Type:	Electronically balanced, RF filtered
Impedance (Euroblock):	> 50 kΩ Balanced, >25 kΩ Unbalanced, RF Filtered
Impedance (RCA):	>25 kΩ Unbalanced, RF Filtered
Max input line level:	+20 dBu Mic/Line, +12 dBu RCA
CMRR:	> 40 dB, typically >55 dB @ 1 kHz
Mic Pre gain:	30 to 60 dB
Mic EIN:	> 118 dB, 22 Hz-22 kHz, 150 Ω Source Impedance
Mic Phantom Power:	15 V

Analog Outputs:

Number of Outputs:	6
Connectors:	Euroblock
Type:	Electronically balanced, RF filtered
Impedance:	120 Ω balanced, 60 Ω unbalanced
Max Output Level:	+20 dBu

A/D Performance:

Type:	dbx Type IV™ conversion system
Dynamic Range line:	>113 dB A-weighted, >110 dB unweighted
Type IV dynamic range:	>119 dB, A-weighted, 22 kHz BW>117 dB, unweighted, 22 kHz BW
Sample Rate:	48 kHz

D/A Performance:

Dynamic Range:	112 dB A-weighted, 109 dB unweighted

System Performance:

Dynamic Range:	>110 dB A-weighted, >107 dB unweighted,
THD+N:	0.003% typical at +4 dBu, 1 kHz, 0 dB gain
Frequency Response:	20 Hz – 20 kHz, +/- 0.5 dB
Interchannel Crosstalk:	>80 dB typical
Crosstalk input to output:	>80 dB
Propagation Delay:	0.6 msec
Operating voltage:	100-240 VAC, 50/60Hz
Power Requirements:	27 Watts

Physical:

Weight:	6.0 lbs.(2.7 kg) Shipping weight 8.0 lbs. (3.6 kg)
Dimensions:	1.75" H x 8" D x 19" W

dbx® incorporates high quality mechanical fans in some products. All mechanical fans have a limited life expectancy. We recommend annual inspection of fans for dust occlusion and excessive noise. Fan assemblies should be replaced after six to ten years of use. Environmental factors such as elevated temperature, dust, and smoke can adversely affect fan life. Systems exposed to these conditions should be inspected more frequently. Fan replacement can be performed either at the factory or by an experienced technician in the field. Please contact dbx Technical Support for more information on purchasing replacement parts or product service.

dbx® has a policy of continued product improvement and accordingly reserves the right to change features and specifications without prior notice.

640m/641m

Analog Inputs:

Number of Inputs:	(6 Total) (4) Switchable line or mic inputs (2) RCA Source
Connectors:	Euroblock(Line and Mic) RCA (Source)
Type:	Electronically balanced/RF filtered
Impedance:	> 50 kΩ Balanced, >75 kΩ Unbalanced
Max input line level:	+20 dBu Mic/Line, +12 dBu RCA
CMRR:	> 40 dB, typically >55 dB @ 1 kHz
Mic Pre gain:	30 to 60 dB
Mic EIN:	< 118 dB, 22 Hz-22 kHz, 150Ω
Mic Phantom Power:	15 V

Analog Outputs:

Number of Outputs:	(4)
Connectors:	Euroblock
Type:	Electronically balanced, RF filtered
Impedance:	120 Ω balanced, 60 Ω unbalanced
Max Output Level:	+20 dBu

A/D Performance:

Type:	dbx Type IV™ conversion system
Dynamic Range line:	>113 dB A-weighted, >110 dB unweighted
Type IV dynamic range:	>119 dB, A-weighted, 22 kHz BW
	>117 dB, unweighted, 22 kHz BW
Sample Rate:	48 kHz

D/A Performance:

Dynamic Range:	112 dB A-weighted, 109 dB unweighted

System Performance:

Dynamic Range:	>109 dB A-weighted, >106 dB unweighted,
THD+N:	0.003% typical at +4 dBu, 1 kHz, 0 dB gain
Frequency Response:	20 Hz – 20 kHz, +/- 0.5 dB
Interchannel Crosstalk:	>80 dB typical
Crosstalk input to output:	>80 dB
Propagation Delay:	0.6 msec
Operating voltage:	100 VAC, 50/60 Hz, 120 VAC, 60 Hz, 230 VAC 50/60 Hz
Power Requirements:	29 Watts

Physical:

Weight: 6.8 lbs.(3.1 kg) Shipping weight 8.8 lbs. (4.0 kg)
Dimensions: 1.75" H x 8" D x 19" W

1260m/1261m

Analog Inputs:

Number of Inputs:	10 Total (6) Switchable mic or line, (4) RCA, and (1) S/PDIF
Connectors:	Euroblock (Line and Mic), RCA (Source) and RCA (S/PDIF)
Type:	Electronically balanced, RF filtered
Impedance (Euroblock):	> 50 kΩ Balanced, >25 kΩ Unbalanced, RF Filtered
Impedance (RCA):	>25 kΩ Unbalanced, RF Filtered
Max input line level:	+20 dBu Mic/Line, +12 dBu RCA
CMRR:	> 40 dB, typically >55 db @ 1kHz
Mic Pre gain:	30 to 60 dB
Mic EIN:	> 118 dB, 22 Hz-22 kHz, 150 Ω Source Impedance
Mic Phantom Power:	15 V

Analog Outputs:

Number of Outputs:	6
Connectors:	Euroblock
Type:	Electronically balanced, RF filtered
Impedance:	120 Ω balanced, 60 Ω unbalanced
Max Output Level:	+20 dBu

A/D Performance:

Type:	dbx Type IV™ conversion system
Dynamic Range line:	>113 dB A-weighted, >110 dB unweighted
Type IV dynamic range:	>119 dB, A-weighted, 22 kHz BW>117 dB, unweighted, 22 kHz BW
Sample Rate:	48 kHz

D/A Performance:

Dynamic Range:	112 dB A-weighted, 109dB unweighted

System Performance:

Dynamic Range:	>110 dB A-weighted, >107 dB unweighted,
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Frequency Response:	20 Hz – 20 kHz, +/- 0.5 dB
Interchannel Crosstalk:	>80 dB typical
Crosstalk input to output:	>80 dB
Propagation Delay:	0.6 msec
Operating voltage:	100-240 VAC, 50/60Hz
Power Requirements:	27 Watts

Physical:

Weight:	6.0 lbs.(2.7 kg) Shipping weight 8.0 lbs. (3.6 kg)
Dimensions:	1.75" H x 8" D x 19" W

dbx

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