MIX MIC SOURCES IN A ROOM TO ONE DANTE™ CHANNEL
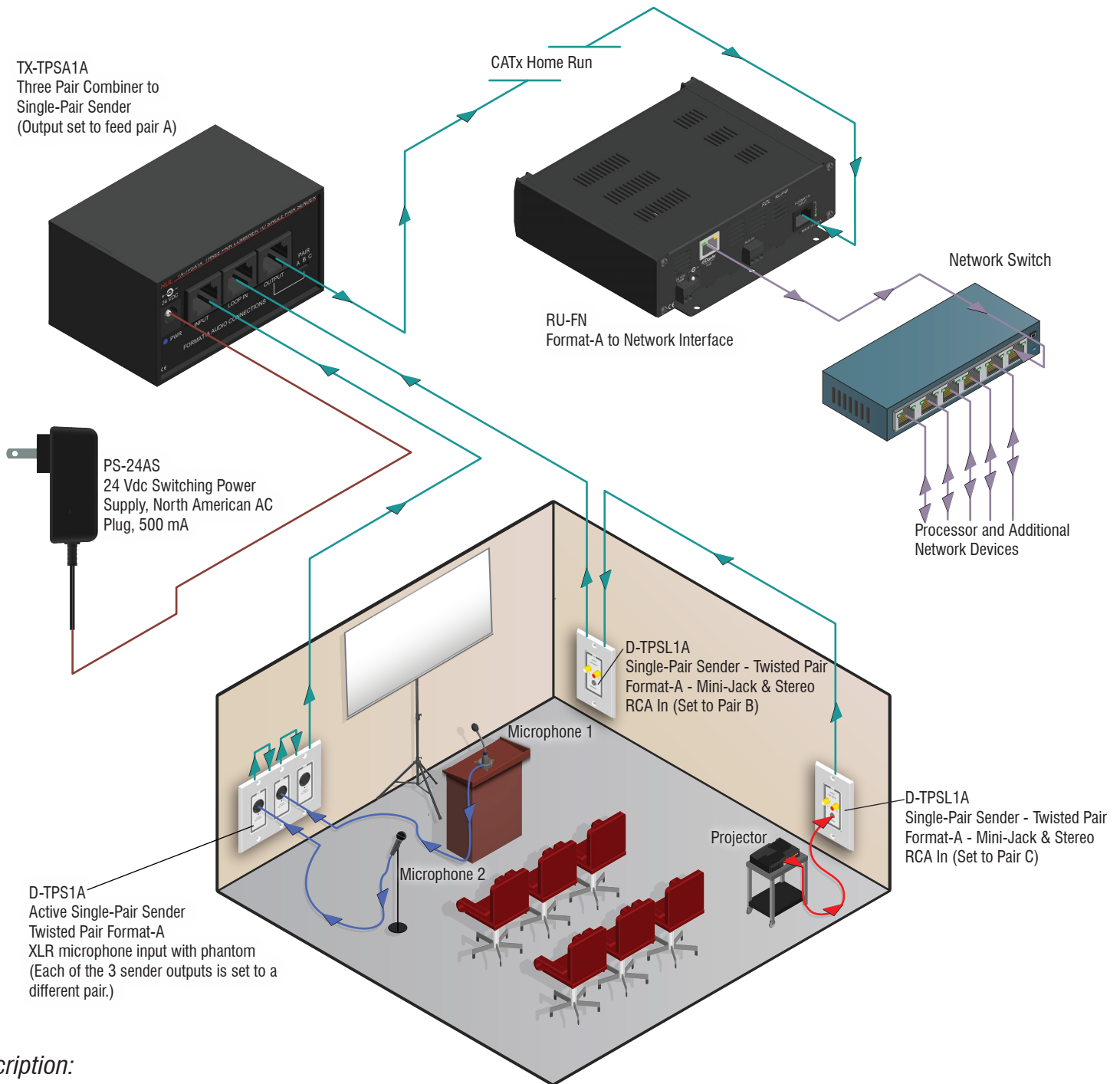### Expand the Capacity of a Single Dante Channel Using a Format-A Three-Pair Combiner

SYSTEMS SOLUTIONS

AN-2231

TX-TPSA1A
Three Pair Combiner to
Single-Pair Sender
(Output set to feed pair A)

CATx Home Run

Network Switch

RU-FN
Format-A to Network Interface

Processor and Additional
Network Devices

PS-24AS
24 Vdc Switching Power
Supply, North American AC
Plug, 500 mA

D-TPSL1A
Single-Pair Sender - Twisted Pair
Format-A - Mini-Jack & Stereo
RCA In (Set to Pair B)

Microphone 1

Microphone 2

Projector

D-TPSL1A
Single-Pair Sender - Twisted Pair
Format-A - Mini-Jack & Stereo
RCA In (Set to Pair C)

D-TPS1A
Active Single-Pair Sender
Twisted Pair Format-A
XLR microphone input with phantom
(Each of the 3 sender outputs is set to a
different pair.)

Description:

The TX-TPSA1A Three-Pair Combiner to Single-Pair Sender is used to add up to two additional sources to one pair in a Format-A system. Each of the three D-TPS1A single-pair microphone senders is set to feed a unique pair (A, B or C). These senders are daisy chained on one CATx cable run connected to the INPUT of the TX-TPSA1A combiner where the three pairs are summed to feed Pair A. The TX-TPSA1A output feeds an RDL RU-FN Format-A to Dante Interface. Microphones connected to any of the mic-input senders will be sent on the first Dante output channel. Two D-TPSL1A single-pair senders (set to feed pairs B and C) are looped together on a second cable run connected to the LOOP IN of the combiner. These sources will be sent independently on the second and third Dante channels.

DC power connected to the TX-TPSA1A powers all five senders. Note: Up to three TX-TPSA1A modules may be daisy chained on one cable run, permitting as many as nine senders to feed audio through a single Format-A cable and to be sent on three Dante network channels.

RDL
Radio Design Labs
www.rdlnet.com

Parts List

Product	QTY
D-TPS1A	3
D-TPSL1A	2
RU-FN	1
TX-TPSA1A	1

Recommended Pwr. Supplies

Product	QTY
PS-24AS 24 Vdc 500 mA	1

Line Color Key

Line Level Audio Signal
Loudspeaker Level
Control Signal
Video
Mic Level Audio Signal
Network
Power
Format-A