



Sales Support

Need help finding integration solutions for your application? Our Sales Support staff will be happy to work with you, providing expert integration assistance and a complete systems proposal.

Tech Support

Need tech help? Give us a call. Our tech support staff are experts in the integration industry, so we can research solutions in the proposal stage, advise on programming requirements, and resolve installation issues.

Our job is to make our solutions work seamlessly with your system, performing as promised.

The Contemporary Research Q series of RF distribution components represents a fresh solution for RF channel combining and amplification. The **QCA9-33** starts by actively combining at low 30 dB levels, with no loss and little noise, then feeding the **QDA4-45** for a final 45-50 dB level with only a small net gain in noise.

QCA9-33 Active Combiner

- Tunes analog and digital channels in ATSC, NTSC, and clear QAM formats
- Combines 8 high-level inputs and one low-level input
- Compensates for combining losses and adds 3 dBmV gain
- Provides a maximum output level of up to 33 dBmV
- Wideband, extremely low noise amplifier
- Low power, draws less than 2 watts
- Compact metal enclosure, mounts 2 across in 1 RU using RK1 and RK2 rack kits

QDA4-45 Amplifier Combiner

- Switches between one input or four input combiner
- Adjusts RF gain from front-panel controls and display
- Adds up to 32 dBmV gain for one input, 25 dB for 4 inputs
- Provides a maximum output level of up to 50 dBmV
- Wideband, low noise amplifier
- Low power, draws less than 8.5 watts
- Compact metal enclosure, mounts 2 across in 1 RU using RK1 and RK2 rack kits

Applications

- Use the QCA9-33 as a 9-channel, 30dB amplifier for small RF applications
- Use the QDA4-45 as a 4-channel, 45 dB amplifier for larger applications
- Feed 4 QCA9-33 units into a QDA4-45 to distribute up to 36 channels
- Integrate the QDA4-45 to merge new digital RF channels with an existing 50-55 dB analog RF systems

Related Products

QMOD-HDMI15 HDTV Modulator

QMOD-SDI1.5 HDTV Modulator

QMOD-YPB2 HDTV Modulator

Display Express System

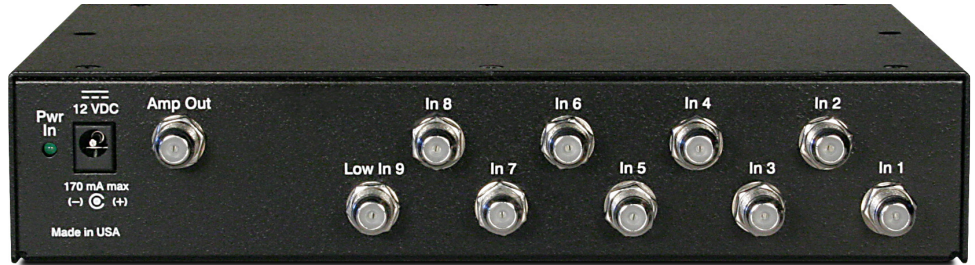
Q Series RF Distribution

QCA9-33 Active Combiner

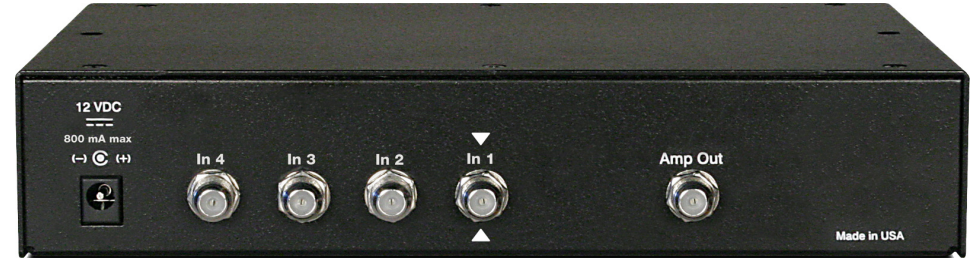
QDA4-45 Amplifier Combiner



QCA9-33



QDA4-45



QCA9-33

Physical 8.5" [216mm] wide x 1.75" [44mm] height
(1RU) x 6.0" [153mm] deep
1.1 lbs [500g]
Durable metal enclosure, rack mountable

Front Panel

Back Panel 8 Input F Connectors
1 Low-level Input F connector
1 Amp Out F connector
DC Power input
Power LED

Inputs High-level Inputs - Max input 30 dBmV
Low-level Input - Max input 19 dBmV
Isolation 38 dB typical, 30 dB minimum, 54 - 860 MHz
Return Loss 30 dB typical

Output 17 dBmV amplifier, extremely low noise,
linear performance through 860 MHz
Net + 3 db gain after combining
Max Level Maximum level +33 dBmV
CTB Composite Triple Beat -75 dBc, 132 channels
at +30 dBmV per channel
Noise Noise Figure 1.8 typical
Return loss 20 dB typical

Power 2.1mm coaxial jack (inside center conductor
positive), 170 mA maximum, 11.5 to 15 VDC,
12 VDC typical (may be unregulated)

Includes PS12-500 12 VDC, 500 mA power supply
Options RK1 Rack Kit for single unit, 1 RU
RK2 EZRack Kit for dual units, 1 RU

QDA4-45

8.5" [216mm] wide x 1.75" [44mm] height
(1RU) x 6.0" [153mm] deep
1.1 lbs [500g]
Durable metal enclosure, rack mountable

Input Selection, 1 or 4 inputs, Green LED
indicators
RF Gain Selection with LED display, 0-25 dB
for four inputs, 0-32 dB for one

Inputs: 4 F Connectors
Amp Out: 1 F connector
DC Power input

Max input 40 dBmV
38 dB typical, 30 dB minimum, 54 - 860 MHz
30 dB typical, 13 dB in single input mode

Input 1: 0-32 dBmV gain, low noise, linear
performance through 860 MHz
All Inputs: 0-25 gain (7 dBmV loss from
combiner)
Maximum level +50 dBmV
-60 dB, 134 channels at +44 dBmV per
channel
Noise Figure 4.5 typical
17 dB typical

2.1 mm coaxial jack (inside center conductor
positive), 700 mA maximum, 11.5 to 13 VDC,
12 VDC typical

PS12-1 1 A 12 VDC power supply
RK1 Rack Kit for single unit, 1 RU
RK2EZ Rack Kit for dual units, 1 RU

Warranty

All CR products feature a full
two-year warranty.

4355 Excel Pkwy • Suite 600 • Addison, TX 75001
972.931.2728 • 888.972.2728 • sales@crwww.com

