

HIGH BANDWIDTH SMALL ROUTING SYSTEMS

Sigma's high bandwidth small routing systems are available in every combination of analog video and audio. Each system comes complete with a control panel. For the full list of available high bandwidth small routing systems, please visit our website.



FEATURES

- High Quality, Low Cost
- 4x4 to 16x16 Input/Output systems
- Control panel included

HIGH BANDWIDTH SMALL ROUTING SYSTEMS

The specifications listed below apply to standard features and signal options for all high bandwidth small routing systems. These systems are available with most combinations of available signal types. To see our full list of high bandwidth small routing systems, please visit our website at www.sigmaelectronics.com.

SPECIFICATIONS

ANALOG AUDIO (BALANCED)

INPUTS

Four, eight, or sixteen, 50 k Ω , balanced
Level +24 dBu max. 600 Ω
Bandwidth >150 kHz
Connectors 3 pin pluggable

OUTPUTS

Four, eight, or sixteen, 300 Ω , balanced
Level +21 dBm max. 600 Ω
Gain Adjustment \pm 3 dB, set for unity
THD <0.1% @ +10 dBm
Freq. Response \pm 0.1 dB, 20 Hz to 100 kHz
Crosstalk 80 dB to 20 kHz
Hum & Noise <-80 dBm to 20 kHz
Connectors 3 pin pluggable

PULSE

INPUTS

Four, eight, or sixteen, 75 Ω , terminated
DC Coupled
Level +2 to -4 V p-p max.
DC Offset \pm 0.3VDC max.
Return Loss 30 dB to 5 MHz
Gain Variation 0.15 dB max.
Gain Setting Adjusted for unity
Connectors BNC

OUTPUTS

Four, eight, or sixteen, 75 Ω impedance
Dynamic Range +2 to -4 V p-p max.
Tilt, Field, & Line 0.1% Maximum
Return Loss 20 dB to 5 MHz
Transient Response 0.5% max. overshoot
Crosstalk >40 dB @ 5 MHz
Hum & Noise -55 dB rms, below 1 V p-p to 10 MHz
Electrical Length 14 nsec typical
Connectors BNC

ANALOG VIDEO

INPUTS

Four, eight, or sixteen, 75 Ω , terminated
AC Coupled for 8x8-16x16, DC Coupled for 4x4 only
Level 1.4 V p-p max.
DC Offset \pm 6.0 VDC max.
 \pm 0.3 VDC max. (4x4 only)

Return Loss 35 dB to 5 MHz
Gain Variation 0.15 dB max.
Gain Setting Adjusted for unity
Connectors BNC

OUTPUTS

Four, eight, or sixteen, 75 Ω impedance
Level 1.4 V p-p max.
Bandwidth >160 MHz
(>175 MHz for 16x8)
(>200 MHz for 4x4)
Differential Phase 0.25 $^\circ$ max., 10 - 90% APL
0.1 $^\circ$ max., 10 - 90% APL (4x4 only)
Differential Gain 0.25% max., 10 - 90% APL
0.1% max., 10 - 90% APL (4x4 only)
Tilt, Field, & Line 1% Maximum
Freq. Response \pm 0.1 dB to 40 MHz
 \pm 0.5 dB to 80 MHz
Return Loss 35 dB (40 dB for 4x4) to 10 MHz
Group Delay 3 nsec to 35 MHz (25 MHz for 4x4)
Crosstalk >55 dB @ 5 MHz
Hum & Noise <-80 dB rms (-70 dB rms for 4x4), below 1 V p-p to 10 MHz
Connectors BNC

CONTROL

SCI Module Port SCI2144 RS-232/RS-422
Control Panel Button per source/destination or numeric keypad
Control levels 4, with breakaway
Take Preset or AutoTake
Connection BNC/Coax, 2000 feet max.
Configuration Rack Mount
Ball stud hardware included
Power 9 Vdc 300mA, wall transformer included