ORCA TECHNOLOGIES
TIME AND FREQUENCY PRODUCTS

Switch and Distribution Amplifier

Model SD-218



Features:

Time Code/Pulse Rate/RF Signal Distribution
Dual Input 18 output distribution unit
A/B Auto Switch
High Channel Isolation
High Level of Flexibility and Configurability
Input Signal Frequency Monitoring Logic
A, B, Fault Inputs from external reference(s)
Configurable from Front Panel or Network Port
Front Panel OLED Setup/Control Pushbuttons, Status LEDs
Front Panel LED Alarm, Audible Alarm, Network Port Alarm
Dedicated Web Application Interface for Easy Setup, Control and Status
Dual Power Supply Option (DC and standard AC)

General Product Description

The ORCA Technologies SD-218 switch and distribution unit is an intelligent switching, monitoring and distribution system, packaged in a 1U rack-mount chassis. The unit consists of 2 inputs BNC's labeled A and B that can be routed to the 18 outputs BNCs. Control of the switch is operating mode dependent. The instrument is designed with 50 Ω source impedance and will provide unity gain from input to output.

The SD-218 includes comprehensive input signal frequency monitoring logic where the user can define what the expected frequency should be on each input. If the input signal does not fall within the defined margin of error and the unit is in the auto mode, a frequency fault condition may cause a switch to occur. The unit also has 2 fault logic level inputs that map to the A, B inputs. These inputs can be connected to upstream equipment (reference source) to signal the SD-218 that the reference is not viable. All fault conditions are summed providing a common alarm output available on the rear panel.

The front panel consists of a high resolution alpha-numeric display, a control keypad and 2 multi-color input status LEDs. The tactile front panel switches consist of 4 arrow navigation, SETUP, BACK and FAULT CLEAR keys. The display is an OLED type that provides improved readability over standard LCD displays.

The rear panel contains 18 output signal BNCs, 2 input signal BNCs, 2 external fault input BNCs, alarm output BNC, RJ-45 network connector, USB and power input (optional Dual power input).

For additional information contact your ORCA Representative at 949-361-0212 or via email at
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SD-218 Switch Distribution Amplifier

Product Specifications

Inputs (A, B, female BNC)

Frequencies - RF and Time Code
- Frequency: 0 to 25 MHz
- Level: Level: +/- 0.5V to 3.5V (gain = unity)
- Impedance: 1K or 50 Ω

Pulses - Digital
- Frequency: 0 to 25 MPPS
- Level < 3.5V High (gain = unity)
- Impedance: 1K or 50 Ω

External Alarm Input (A, B)
- Active state: configurable Hi/Low
- Logic Hi: <10V
- Logic Low: <1V
- Connectors: BNC

Alarm Output
- Active state: configurable Hi/Low
- Connector: BNC

Outputs - 18, female BNC
- Source Impedance: 50 Ω

Delay
- Input to Output: <16ns
- Channel to Channel: <2ns

Environmental
- Operating Temperature: 0 – 50 °C
- Storage Temperature: -40 – 70 °C
- Humidity: 90% non-condensing

Power Requirements
- AC: 85-260 VAC (<10W)
- Optional DC: 24 - 48VDC (<0.5A)

Dimensions
- 1.75” high x 17.5” wide x 6” deep
- 19” rack mount



Rear Panel View

For additional information contact your ORCA Representative at 949-682-3289 or via email at sales@orcatechnologies.com www.orcatechnologies.com
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(Specifications Subject to Change—191108)