

Dynamic Signal Buffered Splitter

G Systems Dynamic Signal Buffered Splitter provides dual outputs from a single signal input and buffers the secondary output from the primary. This feature allows signals to be monitored with an external instrument without affecting the primary system measurements. Sensors are connected to the front input signal, and the un-buffered (pass-through) outputs are connected to the primary Data Acquisition System (DAQ) on the rear panel. The buffered outputs can be connected to an external instrument through the buffered output front panel connection. This device enables test engineers to connect external measurement instruments to the system for additional measurement functionality or diagnostics without affecting the measurements on the primary measurement system. Typical transducer measurement inputs include accelerometers, microphones, pressure, and proximity. For example, a short connected to the buffered output will not affect the pass-through outputs. For customers that require additional functionality, G Systems also provides hardware and software customization services.



Option 1 Specifications:

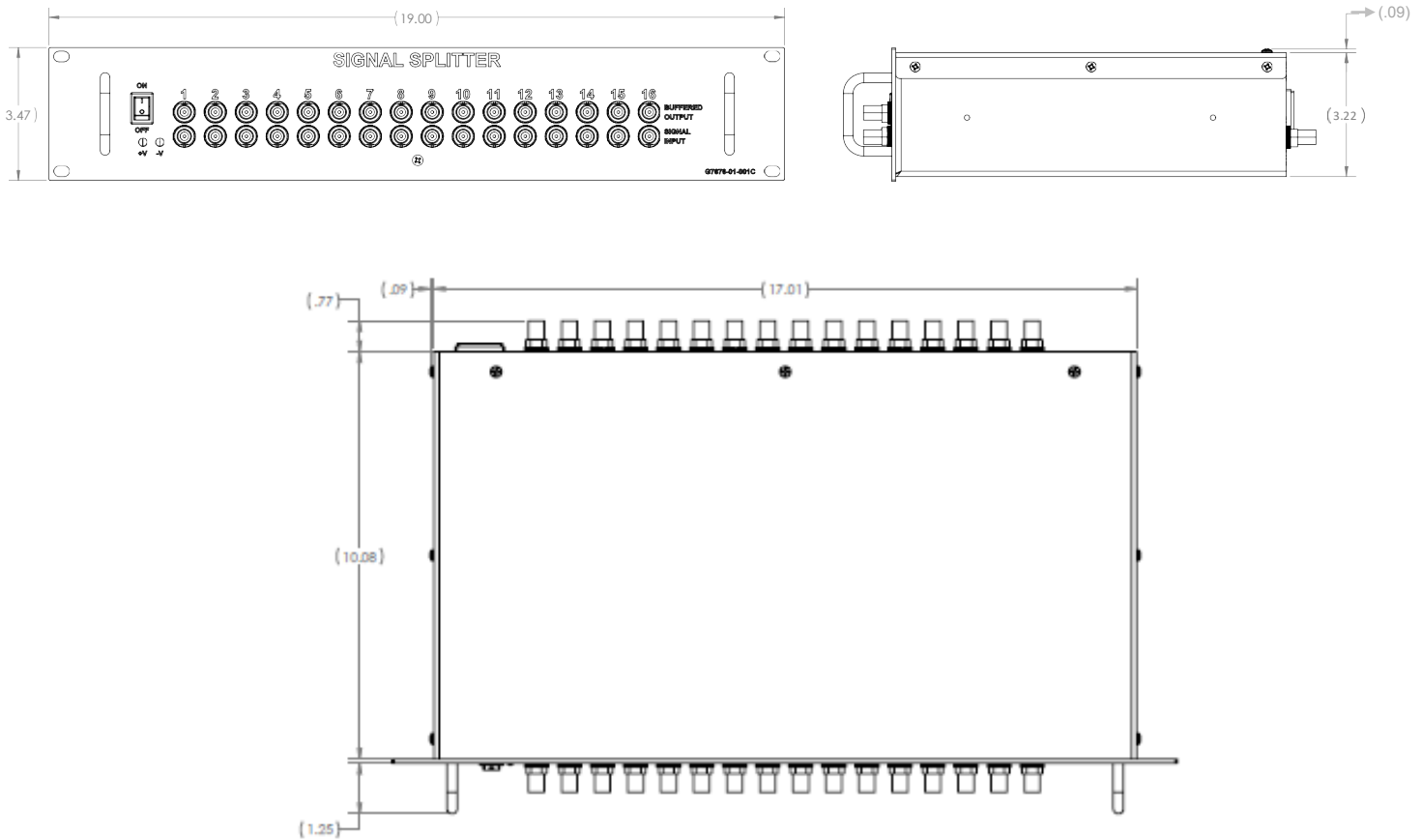
- 16 input channels, 16 un-buffered output channels, and 16 buffered output channels
- Voltage Range: +/-10 V
- Measured Rise Time on buffered output with a 10 Vp-p 20 kHz square wave input: $\leq 4.56 \mu\text{s}$
- Measured Rise Time on un-buffered output with a 10 Vp-p 20 kHz square wave input without short on buffered output: $\leq 653 \text{ ns}$
- Measured Rise Time on un-buffered output with a 10 Vp-p 20 kHz square wave input with short on buffered output: $\leq 642 \text{ ns}$
- Buffered Bandwidth: DC-200kHz, Amp: $\pm 0.2 \text{ dB}$
- Power: 88-264 VAC, 47-63 Hz, 10W

Option 2 Specifications:

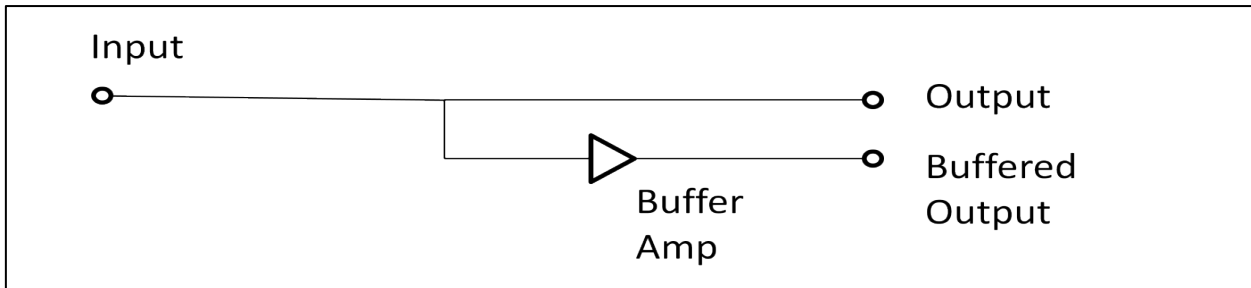
- 16 input channels, 16 un-buffered output channels, and 16 buffered output channels
- Voltage Range: +/-30 V
- Measured Rise Time on buffered output with a 15 Vp-p 20 kHz square wave input: $\leq 980 \text{ ns}$
- Measured Rise Time on un-buffered output with a 15 Vp-p 20 kHz square wave input without short on buffered output: $\leq 480 \text{ ns}$
- Measured Rise Time on un-buffered output with a 15 Vp-p 20 kHz square wave input with short on buffered output: $\leq 484 \text{ ns}$
- Buffered Bandwidth: DC-200kHz, Amp: $\pm 0.2 \text{ dB}$
- Power: 88-264 VAC, 47-63 Hz, 10W

Dynamic Signal Buffered Splitter

Dimensional Drawing



Schematic



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