

SW-1 & SW-4 SWITCHES

I.F. EAS Switches

- Compact Size
- No Separate Power Cables
- No Separate Control Signals

SW-1 Switch

Trilithic's SW-1 is an A/B switch designed specifically for I.F. switching and deployment in the Trilithic EASy system. The small SW-1, measuring approximately 1 inch in size, is installed into the modulator's I.F. loop and is the only Trilithic hardware required at the rear of your modulator or processor for Emergency Alert activation.

The SW-1 switch is a fail-safe switch that operates at 40-50 MHz. In conjunction with the Trilithic LS-16P, the SW-1 provides an alternate I.F. signal to the channel during an EAS alert. For modulators requiring dual I.F. feeds, simply install two SW-1 switches at the rear of each channel.

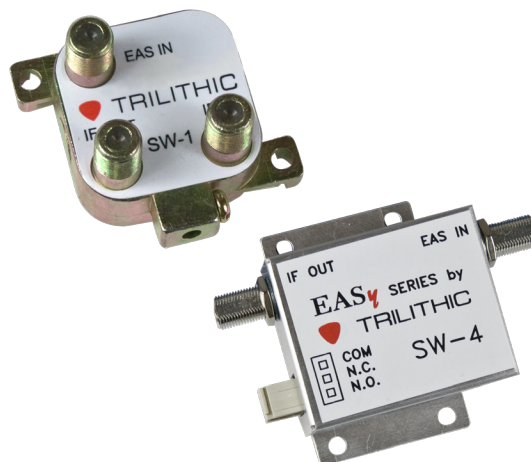
The SW-1 switch receives its power, control and I.F. signal via a single coaxial drop cable fed from the LS-16P distribution amplifier. During normal operation, the SW-1 switch completes the channel's I.F. loop, connecting the modulator's I.F. output and input.

When the Emergency Alert System is activated, a substitution I.F. signal and a control signal are applied to the SW-1's input port. The SW-1 then activates the EAS input to the modulator.

SW-4 Switch

Trilithic's SW-4 switch was designed for use in the Trilithic EASy system. The SW-4 provides a local contact closure and a substitution I.F. signal for the auxiliary I.F. input of modulators equipped with an internal I.F. switch. The SW-4 operates in conjunction with the LS-16P to make an alternate I.F. signal available to the modulator or processor during an EAS alert.

The SW-4 has input and output ports for the EAS I.F. signal and a small terminal block to access the Normally Open, Normally Closed and Common contacts of an internal SPDT relay.



When the EAS alert is activated, the LS-16P's control signal initiates the SW-4's internal relay. This, in turn, activates the modulator's internal I.F. switch. The SW-4's contact closure is a "fail-safe" contact, which automatically opens and reverts to normal programming should power fail. The SW-4 is installed at the modulator's auxiliary I.F. input. It receives power, control and the substitution I.F. signal via a single coaxial cable fed by the LS-16P.

Power and control signals are blocked internally and do not appear at the output port. This small switch measures approximately 1.5 inches by 2 inches and can easily reside on the back of the modulator and requires no additional rack space or power source.

SW-4P Switch

Trilithic's patent pending SW-4P switch is identical to the SW-4 in operation, function and size with one exception. The power and control signals are passed through to the output port.

This allows the SW-4P to activate an SW-1 for use on modulators and processors where the Auxiliary I.F. Input is already occupied by a source such as a Syndex or Channel Share application.

This combination permits the EAS message to have priority over either the normal program material or all other alternative sources.

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I.F. EAS Switches

SW-1 SPECIFICATIONS (P/N 2010780000)

SW-4 / SW-4P SPECIFICATIONS (P/N 2010783000)

Frequency Range	40 to 50 MHz	40 to 50 MHz
Impedance	75 Ohms	75 Ohms
Flatness	Better than 0.25 dB	Better than 0.1 dB
Return Loss	26 dB, minimum	27 dB, minimum
Insertion Loss	0.1 dB, maximum	0.1 dB, maximum
Isolation	> 122 dB (A to C, B Open) > 84 dB (B to C, A Open)	N/A
Switching Speed	15 mSec, maximum	15 mSec, maximum
Control	Coaxial Feed	Coaxial Feed
# of Channels	1	1
Output Ports	I.F. Output	I.F. Output and 1 Amp Contact Closure
Application	Single I.F. Loop	Auxiliary I.F. and Contact Closure
Power Requirements	Coaxial Feed from LS-16P	Coaxial Feed from LS-16P
Dimensions	1.5" x 1.5" x 1"	2.1" x 1.8" x 0.8"