

Title (en)

Digital switcher for routing signals.

Title (de)

Numerischer Schalter zur Vermittlung von Signalen.

Title (fr)

Commutateur numérique pour acheminer des signaux.

Publication

EP 0430405 A2 19910605 (EN)

Application

EP 90310062 A 19900913

Priority

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Abstract (en)

A digital switcher routes signals at rates up to or more than 300 MHz between switcher inputs and outputs. The switcher includes an array of n rows and m columns of modules linking n groups of switcher inputs and m groups of switcher outputs. Each module consists of a primary switching unit (A1) for selectively coupling individual ones of its outputs to ones of its inputs and a number of individually-controllable, regenerative, two-input selector switches (A2). The primary and selector switches are controlled by a controller (20). The selector switch outputs form the module outputs. Each selector switch has an input connected to an associated output of the primary switching unit in the same module, and the other connected to an associated output of a module in the previous row of the array (apart from those in the first row). The switcher outputs are derived from the outputs of the last row of modules. To route a signal from a switcher input to a selected switcher output, the appropriate primary switching unit to which that switcher input is fed links its corresponding input to the selected one of its outputs. The regenerative selector switches in that module and in modules in subsequent rows then cascade the signal from that module through the subsequent rows to the selected switcher output. <IMAGE>

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