

ANALOG CROSSPOINT SWITCH

PRODUCT OVERVIEW

Zarlink's high-performance analog crosspoint switches are used in a variety of telecom, medical and video applications. The switch arrays range from 8x4 and 8x16 and can be cascaded to increase the matrix size. Performance characteristics include fast hold and setup times, minimum feedthrough, low crosstalk and maximum on-stage resistance of 65 ohms at 12 V. For added flexibility, the switches are designed to operate over a wide range of voltages, typically from 4.5 V to 13.2 V.

MT8816 8x16 Analog Switch Array

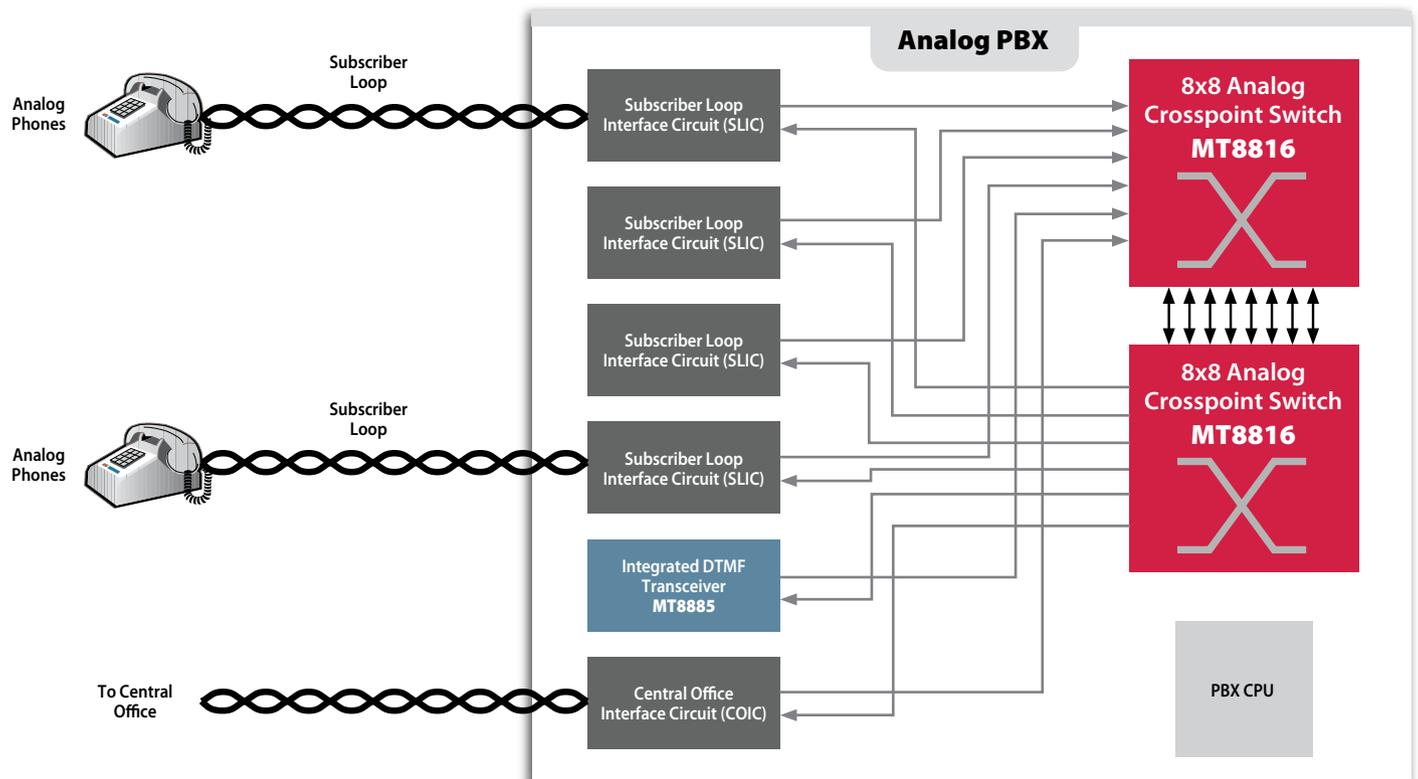
The MT8816 is fabricated in ISO-CMOS technology, providing low power dissipation and high reliability. The device contains a 8x16 array of crosspoint switches along with a 7 to 128 line decoder and latch circuits. Any one of the 128 switches can be addressed by selecting the appropriate seven address bits. The selected switch can be turned on or off by applying a logical one or zero to the data input.

High-Performance Analog Crosspoint Switches

- ➔ Internal control latches and address decoder
- ➔ Short setup and hold times
- ➔ Wide operating voltage: 4.5 V to 13.2 V
- ➔ 12 Vpp analog signal capability
- ➔ Full CMOS switch for low distortion
- ➔ Minimum feedthrough and crosstalk
- ➔ Separate analog and digital reference supplies
- ➔ Low power consumption ISO-CMOS technology

Typical Applications

- ➔ Key systems
- ➔ PBX systems
- ➔ Mobile radio
- ➔ Test equipment/instrumentation
- ➔ Analog/digital multiplexers
- ➔ Audio/video switching



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Part #	Features													Packaging	
MT8806	Array	8x4	4.5 -13.2	45	+/- 12	65	10	>10	>10	>10	>10	>10	●	●	24 pin PDIP, 28 pin PLCC
MT8808		8x8	4.5 -13.2	45	+/- 12	65	10	>10	>10	>10	>10	>10	●		28 pin PDIP, 28 pin PLCC
MT8809		8x8	4.5 -13.2	45	12	65	10	>10	>10	>10	>10	>10	●	●	28 pin PDIP, 28 pin PLCC
MT8812		8x12	4.5 -14.5	45	14	65	10	>10	>10	>10	>10	>10	●		40 pin PDIP, 44 pin PLCC
MT8814		8x12	4.5 -13.2	45	+/- 12	65	10	>10	>10	>10	>10	>10	●	●	40 pin PDIP, 44 pin PLCC
MT8815		8x12	4.5 -13.2	45	+/- 12	65	10	>10	>10	>10	>10	>10	●		40 pin PDIP, 44 pin PLCC
MT8816		8x16	4.5 -13.2	45	+/- 12	65	10	>10	>10	>10	>10	>10	●	●	40 pin PDIP, 44 pin PLCC
MT093		8x12	4.5 -14.5	45	3.5	65	10	>20	>20	>20	>20	>20	●		40 pin PDIP, 44 pin PLCC

MT093 is a variation of the MT8812. The part is a drop in replacement of the M093 from SGS Thompson.