

## Product Overview

### NB6L72M: 2x2 Crosspoint Switch, 2.5 V / 3.3 V Differential, with CML Outputs

For complete documentation, see the data sheet.

The NB6L72M is a high-bandwidth fully differential 2 X 2 Crosspoint Switch with internal source termination and CML output structure, optimized for low skew and minimal jitter. The differential inputs incorporate internal 50-ohm termination resistors and will accept LVPECL, CML, LVDS, LVCMOS, or LVTTTL logic levels. The SELECT inputs are single-ended and can be driven with LVCMOS/LVTTL. The 16mA differential CML outputs provide matching internal 50-ohm terminations and 400mV output swings when externally terminated with a 50-ohm resistor to VCC. The device is offered in a small 3mm x3mm 16-pin QFN package. The NB6L72M is a member of the ECLinPS MAX family of high performance products.

### Features

- Input Clock Frequency > 3.0GHz Input Data Rate > 3 Gbps
- Internal Input Termination Resistors, 50-

### Benefits

- High performance clock and data applications
- No external components needed for inputs

### Applications

- Clock / Data Distribution

### Part Electrical Specifications

Product	Pricing (\$/Unit)	Compliance	Status	Input/Output Ratio	Channels	Input Level	Output Level	V <sub>CC</sub> Typ (V)	f <sub>Max</sub> Typ (MHz)	t <sub>jitter</sub> Typ (ps)	t <sub>skew(OO) Max</sub> (ps)	t <sub>pd</sub> Typ (ns)	Package Type
NB6L72MMNG		Pb-free	Active	2:2	1	LVDS	CML	2.5	3000	0.2	20	0.36	QFN-16
		Halide free				CML							
						ECL							
						CMOS							
NB6L72MMNR2G		Pb-free	Active	2:2	1	ECL	CML	2.5	3000	0.2	20	0.36	QFN-16
		Halide free				CMOS							
						LVDS							
						CML							

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