

fast
4ns
reliable
flexible



METAMAKO

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4ns

MetaConnect

The 4 nanosecond layer 1 switch with dynamic patching, media conversion, tapping, monitoring and timestamping.



What is MetaConnect?

MetaConnect is a configurable layer 1 **switch** with a latency of just **4ns**, making it almost undetectable. It functions as a dynamically configurable **patch** panel, **broadcasts** like a set of regenerative **taps**, it handles and **regenerates** signals at up to 10GbE with state of the art signal integrity and can **convert** between different media. MetaConnect provides packet **monitoring**, statistics and precise **timestamping**. And it can perform all of these functions at the same time.

What's the advantage?

MetaConnect replaces a rack loaded with separate devices to simplify your network architecture and **free up valuable space** for servers, leaving you more rack-units for your money. It gives you control and visibility over the network traffic without compromising performance. MetaConnect's signal integrity circuitry improves reliability and supports the conversion between different media, including the use of lower cost SFP/SFP+ modules. Smart features such as timestamping and packet statistics add extra value without compromising latency. A powerful x86-64 Linux management platform provides a pathway to highly integrated network applications. **Cost savings, performance improvements** and monitoring combine to provide an essential addition to your network.

How can MetaConnect be used?

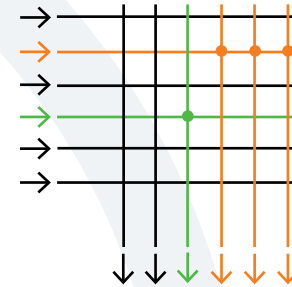
- As a dynamically controllable patch panel, eliminating the need for remote hands
 - To broadcast market data to any number of ports in only 4ns
 - As a remote kill switch / circuit breaker or bypass for failed links
 - For precise timestamping
 - To convert between different media types (e.g. fiber to copper)
 - For latency and connection monitoring, troubleshooting and logging
 - For test labs, using dynamic reconfiguration for timeshare of infrastructure
- ... and there are many more applications. To find out how MetaConnect can improve your business, contact us at info@metamako.com or visit www.metamako.com

How does MetaConnect work?

MetaConnect is made up of extremely fast signal integrity circuitry, along with a matrix switch. A matrix switch directly connects any input to any output using a grid of connections.

Put a dot on any one of the intersections on this diagram – one per column, any number per row. Each port on the MetaConnect has an input (receive), an output (transmit) and can connect any input to any output (or multiple outputs), enabling bidirectional connections by creating two connections in the matrix switch.

You could think of it as a telephone exchange, but for high performance networks, allowing you to connect one port directly to another port – without compromising performance.



MetaConnect replaces patch panels, taps, media converters and switches

More space for your servers