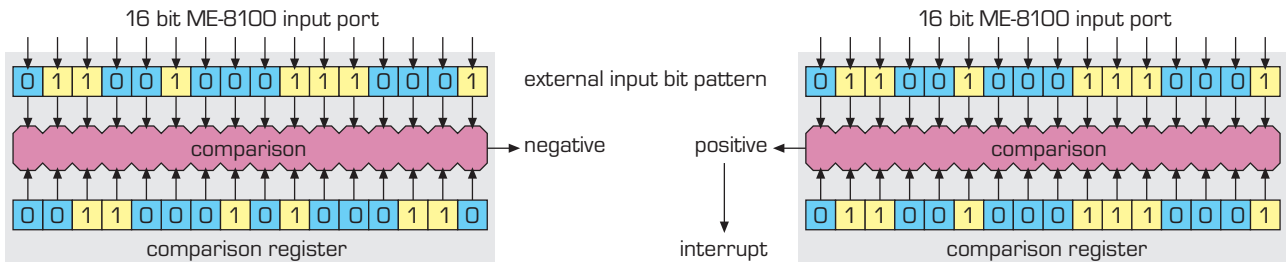


Subject: Bitpattern Comparator and Status Monitoring with the ME-8100

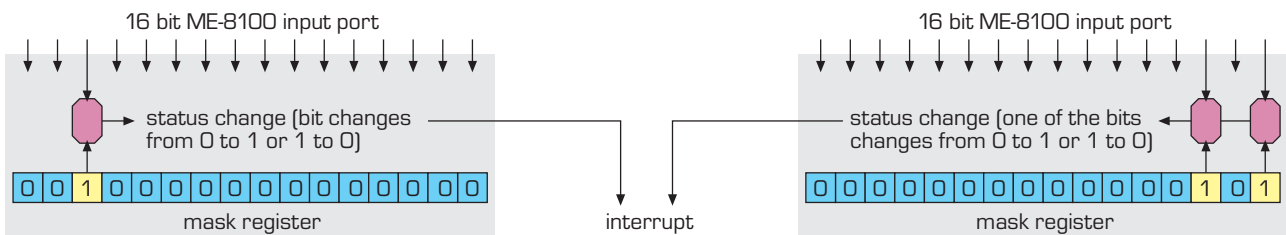
FAQ: **How does the bitpattern comparator and the monitoring of changes in bitpatterns work on the opto I/O board ME-8100?**

Features: The ME-8100's 16 bit bitpattern comparator and its mask register for detection of changes in bit patterns are interesting features you won't find very often on PCI and CompactPCI digital I/O boards in that low price range. All digital inputs on the board are opto-isolated and designed for industrial 24 V operation. The output drivers can be software configured as "Sink" (low active) or "Source" (high active). These features and the 3 opto-isolated 16 bit counters on board make the ME-8100 a perfect solution for professional applications in labs and industrial environments.

Bitpattern comparator: The ME-8100A has one 16 bit wide bitpattern comparator, the ME-8100B has two 16 bit wide bitpattern comparators on board. In the "bitpattern comparison" mode the user writes a bitpattern into the comparison register. The ME-8100 compares this bitpattern with the external pattern at its input port (picture 1, left). If both bit patterns are equal (picture 1, right), an interrupt can be generated, if enabled.



Bitpattern changes: In the "bitpattern change" mode one (picture 2, left) or more (picture 2, right) selected input bits can be monitored on whether they change their status. The corresponding bits in the mask register are set as a reference. If the status of at least one of the "1"-masked bits changes (0 to 1 or 1 to 0), an interrupt can be generated, if enabled.



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Meilhaus Electronic GmbH

Fischerstrasse 2
82178 Puchheim/Germany

+49 - 89 - 89 01 66-0
FAX +49 - 89 - 80 83 16

www.meilhaus.com
eMail sales@meilhaus.com