

# M-Modules for Digital Process I/O



|             | I/O Lines   | Load on...     | Input Voltage Range | Output Voltage Range | Output Current per Channel | Front Connector | Isolation        | Consumption typ. | Software                           |
|-------------|---|----------------|---------------------|----------------------|----------------------------|-----------------|------------------|------------------|------------------------------------|
| <b>M82</b>  | 16 inputs   |                | 0 V to 40 V         |                      |                            | 44-pin HD-Sub   | Yes              | 220 mA           | Windows, Linux, QNX, OS-9, VxWorks |
| <b>M81</b>  | 16 outputs  |                |                     | 0 V to 36 V          | 500 mA                     | 44-pin HD-Sub   | Yes              | 330 mA (max.)    | Windows, Linux, QNX, OS-9, VxWorks |
| <b>M66</b>  | 32 inputs or outputs  | Ground         | 0 V to 32 V         | 12 V to 32 V         | 1.9 A max.                 | 44-pin HD-Sub   | Yes              | 200 mA           | Windows, Linux, QNX, OS-9, VxWorks |
| <b>M58</b>  | 32-bit TTL I/O with line termination  |                |                     |                      |                            | 44-pin HD-Sub   |                  | 200 mA           | Windows, Linux, QNX, OS-9, VxWorks |
| <b>M43N</b> | 8 relay outputs   |                |                     | 48 V max.            | 1 A                        | 25-pin D-Sub    | Yes              | 3.5 W            | Windows, Linux, QNX, OS-9, VxWorks |
| <b>M32</b>  | 16 inputs   | Supply voltage | 0 V to 180 V        |                      |                            | 25-pin D-Sub    | Yes              | 50 mA            | Windows, Linux, QNX, OS-9, VxWorks |
| <b>M31</b>  | 16 inputs   | Ground         | 0 V to 180 V        |                      |                            | 25-pin D-Sub    | Yes              | 50 mA            | Windows, Linux, QNX, OS-9, VxWorks |
| <b>M28</b>  | 16 outputs  | Ground         |                     | 8 V to 36 V          | 500 mA                     | 25-pin D-Sub    | Yes              | 100 mA           | Windows, Linux, QNX, OS-9, VxWorks |
| <b>M27</b>  | 16 outputs  | Supply voltage |                     | 8 V to 36 V          | 500 mA                     | 25-pin D-Sub    | Yes              | 100 mA           | Windows, Linux, QNX, OS-9, VxWorks |
| <b>M11</b>  | 18-bit TTL I/O  |                |                     |                      |                            | 25-pin D-Sub    |                  | 200 mA           | Windows, Linux, QNX, OS-9, VxWorks |
| <b>M199</b> | FPGA/Nios-based main M-Module with 32 MB SDRAM and 8 MB Flash for integration of user-defined I/O on a USM Universal Submodule plugged onto the main module |                |                     |                      |                            | 1x 50-pin SCSI  | Depending on USM |                  | Depending on IP core functions     |

## Compare Chart