

# 140CPU65160

Unity processor Modicon Quantum - 1024 kB - 266MHz



## Main

|                           |                                     |
|---------------------------|-------------------------------------|
| Range of product          | Modicon Quantum automation platform |
| Product or component type | Unity processor                     |

## Complementary

|                                   |  |
|-----------------------------------|--|
| Clock frequency                   | 266 MHz  |
| Number of slots                   | 10<br>16<br>2<br>4<br>6  |
| Number of racks                   | 2 - local rack(s)  |
| Number of distributed I/O station | 63 station(s) - 1 rack(s) - 3 Modbus Plus network(s)   |
| Number of remote I/O station      | 31 - 2 S908 remote I/O rack(s)<br>31 - 2 ethernet Quantum remote I/O rack(s)<br>16 - 2 ethernet X80 remote I/O rack(s)   |
| Discrete I/O number               | Unlimited (26 slots max) - local<br>31744 inputs, 31744 outputs - remote<br>Unlimited (31 drops of 28 slots max) - ethernet remote I/O<br>8000 inputs, 8000 outputs - distributed - per network Modbus Plus      |
| Analogue I/O number               | Unlimited (26 slots max) - local<br>1984 inputs, 1984 outputs - S908 remote I/O<br>Unlimited (31 drops of 28 slots max) - ethernet remote I/O<br>500 inputs, 500 outputs - distributed - per network Modbus Plus |
| Application specific I/O          | Accurate time stamping<br>Counter<br>High-speed interrupt inputs<br>Serial link  |
| Communication service             | Ethernet router  |
| Number of optional modules        | 6 ( Ethernet, Modbus, Modbus Plus, Profibus DP, Sy/Max)  |
| Maximum number of connections     | 1 ( USB)<br>2 ( AS-Interface) - distributed<br>4 ( AS-Interface) - remote<br>6 ( Ethernet TCP/IP) - local<br>6 ( Modbus Plus) - local<br>6 ( Profibus DP) - local<br>1 ( Modbus) - RS232/485 Modbus/ASCII        |
| Integrated connection type        | 1 Modbus Plus with<br>1 Ethernet TCP/IP with<br>1 Modbus with<br>1 USB with  |
| Checks                            | Process control  |
| Memory description                | Internal RAM 1024 kB<br>Expandable 7168 kB - program with PCMCIA card<br>Expandable 8 MB - file storage with PCMCIA card   |
| Switch function                   | Key switch memory port on/off  |
| Application structure             | 1 cyclic/periodic master task -<br>1 periodic fast task -<br>128 I/O interrupt tasks -   |

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|                                |   |
|--------------------------------|---|
|                                | 128 interrupt tasks -<br>32 timer interrupt tasks -<br>4 auxiliary tasks -  |
| Execution time per instruction | 0.0525...0.075 $\mu$ s Boolean<br>0.045...0.06 $\mu$ s on word<br>0.045...0.06 $\mu$ s on fixed-point arithmetic<br>0.4...0.5 $\mu$ s floating points   |
| Number of instructions per ms  | 15 Kinst/ms if 65 % Boolean and 35 % numerical<br>20 Kinst/ms if 100 % Boolean  |
| System overhead                | 1 ms - master task<br>0.2 ms - fast task  |
| Bus current requirement        | 2760 mA   |
| Local signalling               | 1 LED green for Ethernet activity (COM)<br>1 LED red for Ethernet collision   |
| Electrical connection          | 1 connector, connector type: RJ45 for connecting Ethernet network<br>1 connector, connector type: RJ45 for connecting Modbus bus<br>1 female connector, connector type: SUB-D 9 for connecting to the Modbus Plus network |

## Environment

|                        |  |
|------------------------|--|
| Product certifications | CE<br>CSA<br>GOST<br>UL<br>Misc (Marine) |
| Standards              | HazLoc                                   |

## Offer Sustainability

|                                  |   |
|----------------------------------|---|
| Sustainable offer status         | Green Premium product   |
| RoHS (date code: YYWW)           | Compliant - since 1008 - Schneider Electric declaration of conformity |
| REACH                            | Reference not containing SVHC above the threshold                     |
| Product environmental profile    | Available   |
| Product end of life instructions | Need no specific recycling operations                                 |

## Contractual warranty

|        |           |
|--------|-----------|
| Period | 18 months |
|--------|-----------|