

# Q.raxx D105

## Digital Output Module

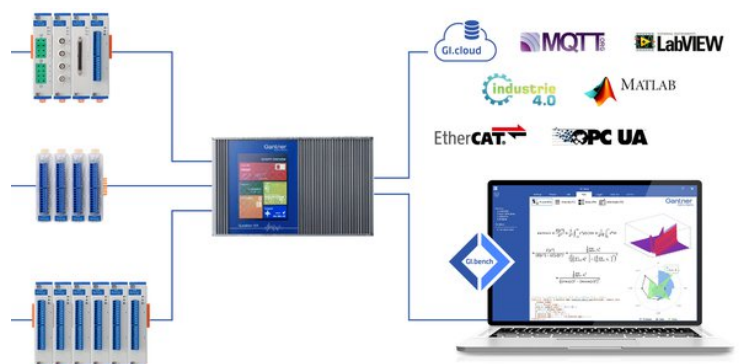
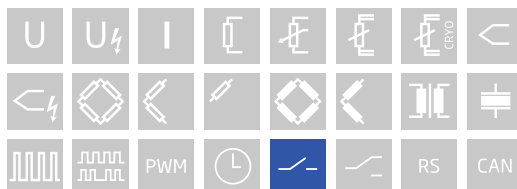
Q.raxx is the ideal 19" rackmount DAQ solution for applications that require high channel density and custom sensor terminations. Q.raxx DAQ systems can utilize an integrated, high-performance controller for communication, control, and data logging purposes. With a controller, multiple Q.raxx systems can be synchronized to each other allowing for efficient DAQ distribution with low jitter and gradual expansion up to thousands of channels.

- High Density  
up to 13 I/O modules per Q.raxx 3U chassis with up to 16 channels per I/O module
- User Friendly  
front panel indicators for module status, power, and input range error
- Fully Customizable  
multiple front panel termination options available
- Maximum Flexibility  
parallel communication available in TCP/IP, CAN, PROFIBUS, Modbus, and EtherCAT



### Key Features

- 16 Digital outputs  
status, single bit or bitset
- High load capacity  
30 VDC / 500 mA, short circuit proof
- Fast response time  
up to 10  $\mu$ s per channel
- 3-Way galvanic isolation  
500 VDC group to group, group to power supply, and bank
- Electromagnetic compatibility (EMC)  
according to IEC 61000-4 and EN 55011



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### Technical Data

#### Digital Output

|                      |                                                                             |                      |                       |
|----------------------|-----------------------------------------------------------------------------|----------------------|-----------------------|
| Channels             | 16                                                                          |                      |                       |
| Mode(s) of operation | status                                                                      |                      |                       |
| Contact              | open drain p-channel MOSFET                                                 |                      |                       |
| Output voltage       | 10 - 30 VDC (external supply required)                                      |                      |                       |
| Load capacity        | 30 VDC / 500 mA (ohmic load)                                                |                      |                       |
| Response time        | 10 $\mu$ s (>0.5 A)                                                         | 100 $\mu$ s (>0.1 A) | 1000 $\mu$ s (<0.1 A) |
| Isolation voltage    | 500 VDC, group to group, group to power supply, channel to bus <sup>1</sup> |                      |                       |

<sup>1</sup> noise pulses up to 1000 VDC, permanent up to 250 VDC

#### Power Supply

|                         |                                                     |
|-------------------------|-----------------------------------------------------|
| Input voltage           | 10 - 30 VDC, overvoltage and overcurrent protection |
| Power consumption       | 2 W (approx.)                                       |
| Input voltage influence | <0.001 % / V                                        |

#### Environmental

|                       |                                   |
|-----------------------|-----------------------------------|
| Operating temperature | -20°C to +60°C                    |
| Storage temperature   | -40°C to +85°C                    |
| Relative humidity     | 5 - 95 % at 50°C (non-condensing) |

#### Remarks

Validity of all listed specifications are subject to a warm-up period of at least 45 minutes

Specifications subject to change without notice

#### Ordering Information

|                |        |
|----------------|--------|
| Article number | 213624 |
|----------------|--------|