



129.95 EUR  
incl. 19% VAT, plus [shipping](#)

- I2C !
- MCP23008 !

Expansion Module Adding functions for controllers NORVI is always about on connectivity and expandability. This is the time to make use of Expansion port of NORVI Controllers. The series of expansion modules connects to NORVI IoT controllers via its I2C and UART connections. You can add more features to the NORVI Controller without huge customizations. NORVI provides true technology with reliability for industrial applications being worlds iot hardware manufacturer. We have included NB-IoT, LoRa and analog modules as expansions.

- Optically Isolated Transistor Outputs
- Supports upto loads of 36V DC
- 300mW Power Dissipation
- MCP23008 Port Expander
- Address Configurable Over DIP Switch
- 16 x Open Collector Transistor Outputs

| Product Specification |                      |
|-----------------------|----------------------|
| Range of product      | NORVI EX             |
| Product type          | I/O Expansion Module |

|                                       |                                                                                                                                           |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Rated supply voltage                  | 24V DC                                                                                                                                    |
| Discrete input number                 | 16 x Open Collector Transistor Outputs                                                                                                    |
| Communication                         | I2C                                                                                                                                       |
| <b>Main</b>                           |                                                                                                                                           |
| Supply voltage limits                 | 20.4....28.8V                                                                                                                             |
| Inrush current                        | ≤10A                                                                                                                                      |
| Maximum Collector Current             | 600mA                                                                                                                                     |
| Collector Power Dissipation           | 300mW                                                                                                                                     |
| Input impedance                       | 4.7k Ohm for input                                                                                                                        |
| Local signaling                       | 1 LED green for PWR                                                                                                                       |
| Electrical connection                 | Removable screw terminal block for inputs and outputs<br>(pitch 5.08 mm)                                                                  |
| Mounting support                      | Top hat type TH35-15 rail conforming to IEC 60715<br>Top hat type TH35-7.5 rail conforming to IEC 60715<br>Plate or panel with fixing kit |
| Height                                | 90.50 mm                                                                                                                                  |
| Depth                                 | 56.60 mm                                                                                                                                  |
| Width                                 | 36.30 mm                                                                                                                                  |
| Product weight                        | 0.13 Kg                                                                                                                                   |
| <b>Environment</b>                    |                                                                                                                                           |
| Resistance to electrostatic discharge | 4kV on contact<br>8kV on air                                                                                                              |
| Resistance to electro magnetic fields | 10 V/m (80 MHz ..... 1GHz)<br>3 V/m (1.4 MHz ..... 2 GHz)<br>1 V/m (2 MHz ..... 3 GHz)                                                    |
| Immunity to microbreaks               | 10 ms                                                                                                                                     |
| Relative humidity                     | 10....95% without condensation in operation                                                                                               |
| IP degree of protection               | IP20                                                                                                                                      |
| Operating altitude                    | 0...2000m                                                                                                                                 |
| Operating Temperature                 | -40°C to +125°C                                                                                                                           |
| Storage altitude                      | 0...3000m                                                                                                                                 |
| Shock resistance                      | 15 gn for 11 ms                                                                                                                           |