

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



Support: [Datasheet](#) | [Brochure](#) | [Example Libraries](#)

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.

- 2 channel thermocouple interface
- temperature readouts with 0.25°C resolution
- I2C Interface with controller
- Versions Available for Most Common Thermocouple Types: K-, J-, N-, T-, S-, R-, and E-Type
- Detects Thermocouple Shorts to GND or VCC
- Detects Open Thermocouple
- Allows readings as high as +1800°C and as low as -270°C

|                  |                 |
|------------------|-----------------|
| Main             |                 |
| Range of product | NORVI Expansion |

|                             |                                                                       |
|-----------------------------|-----------------------------------------------------------------------|
| Product type                | Expansion Module - NORVI-EX-TEX01                                     |
| Rated supply voltage        | 12 - 24V DC                                                           |
| Field of Application        | Temperature measurement                                               |
| Applicable Devices          | NORVI IIOT / NORVI Arita                                              |
| Acquisition                 | Thermocouple K-, J-, N-, T-, S-, R-, and E-Type                       |
| ADC Chip                    | MAX31855                                                              |
| Module Address              | I2C via SC18IS602B                                                    |
| Resolution                  | 0.25 °C                                                               |
| Complementary               |                                                                       |
| Local signalling            | 1 LED green for PWR                                                   |
| Electrical connection       | Removable screw terminal block for inputs and outputs (pitch 5.08 mm) |
| Mounting support            | Top hat type TH35-15 rail conforming to IEC 60715                     |
|                             | Top hat type TH35-7.5 rail conforming to IEC 60715                    |
| Height                      | 86.00 mm                                                              |
| Depth                       | 59.00 mm                                                              |
| Width                       | 35.00 mm                                                              |
| Product weight              | 0.12 Kg                                                               |
| Environment                 |                                                                       |
| Relative humidity           | 10 ...95% without condensation in operation                           |
| IP degree of protection     | IP20                                                                  |
| Operating altitude          | 0...2000m                                                             |
| Storage altitude            | 0...3000m                                                             |
| Shock resistance            | 15 gn for 11 ms                                                       |
| Operating temperature       | -40 to +85 °C                                                         |
| Analog Module communication |                                                                       |
| Module Type                 | MAX31855                                                              |
| Communication               | I2C                                                                   |
| Module Address              | 0x48                                                                  |
| Command set                 | <a href="https://norvi.lk/forums/">https://norvi.lk/forums/</a>       |