



94.95 EUR

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

- Ind. ESP32-WROOM32 !
- Built-in OLED Display !
- Flexible programming !
- Dual Core 32bit 160-Mhz CPU !



Support: [Datasheet](#) | [Brochure](#) | [Quick Start](#)

USB Programmable Industrial ESP32 with OLED Display and din-rail mount. It is designed for protection and reliability. Complying with 2014/30/EU- Electromagnetic Compatibility (EMC) Annex III, Part B, Module C (Conformity to Type Based on Internal Production Control)

- 0.96 OLED Display
- 8x Digital Inputs
- 8x Open collector Transistor
- RS 485 Communication

| Main                   |                                                |
|------------------------|------------------------------------------------|
| Range of product       | NORVI IOT                                      |
| Product type           | Programmable Controller                        |
| Certifications         | EN 61131-2:2007                                |
|                        | EN 61010-1:2010+A1:2019                        |
|                        | EN IEC 61010-2-201:2018                        |
|                        | 2014/30/EU-Electromagnetic Compatibility (EMC) |
|                        | Annex III, Part B, Module C                    |
| Rated supply voltage   | 24V DC                                         |
| Discrete input number  | 8 discrete input                               |
| Discrete output type   | Relay and Transistor                           |
| Discrete output number | 8x Open collector Transistor                   |

|                                       |                                                                                                                                           |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Discrete output voltage               | 24V DC for transistor output                                                                                                              |
| Discrete output current               | 0.5A with T0.0... T0.1 Transistor<br>2 A with R0....R5                                                                                    |
| Communication                         | 1 x RS-485                                                                                                                                |
| OLED Display Protocol                 | I2C                                                                                                                                       |
| TFT Display Protocol                  | SPI                                                                                                                                       |
| Analog input Range                    | 4 - 20mA (AE02-I) / 0 - 10V (AE02-V)                                                                                                      |
| Analog input resolution               | 16 bit                                                                                                                                    |
| <b>Complementary</b>                  |                                                                                                                                           |
| Discrete IO number                    | 16                                                                                                                                        |
| Number of Expansions                  | -----                                                                                                                                     |
| Supply voltage limits                 | 20.4 ..... 28.8V                                                                                                                          |
| Inrush current                        | <= 50A                                                                                                                                    |
| Power consumption in W                | 32.6 ..... 40.4 with all outputs ON                                                                                                       |
| Discrete logic Input                  | Sink or source                                                                                                                            |
| Discrete input Voltage                | 24V DC                                                                                                                                    |
| Voltage TypeVoltage state 1           | > = 15V for Input                                                                                                                         |
| Voltage TypeVoltage state 0           | < = 5V for input                                                                                                                          |
| Discrete Input Current                | 5mA for Input                                                                                                                             |
| Input impedance                       | 4.7k Ohm for Input                                                                                                                        |
| Local signalling                      | 1 LED green for PWR<br>1 LED green for RUN<br>8 LED green for I0.....I7<br>6 LED green for R0.....R5<br>2 LED green for T0....T1          |
| 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<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                                 | 60.60 mm                                                                                                                                  |
| Weight                                | 0.43 kg                                                                                                                                   |
| <b>Environment</b>                    |                                                                                                                                           |
| Resistance to electrostatic discharge | 4kV on contact, 8kV on air                                                                                                                |
| Resistance to electro magnetic fields | 10 V/m (80 MHz ..... 1 GHz)<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                                                                                                                                 |
| Storage altitude                      | 0...3000m                                                                                                                                 |
| Shock resistance                      | 15 gn for 11 ms                                                                                                                           |
| Resistance to electrostatic discharge | 4kV on contact, 8kV on air                                                                                                                |
| Resistance to electro magnetic fields | 10 V/m (80 MHz ..... 1 GHz)<br>3 V/m (1.4 MHz ..... 2 GHz)<br>1 V/m (2 MHz ..... 3 GHz)                                                   |