



NEW!

MiniMax Series

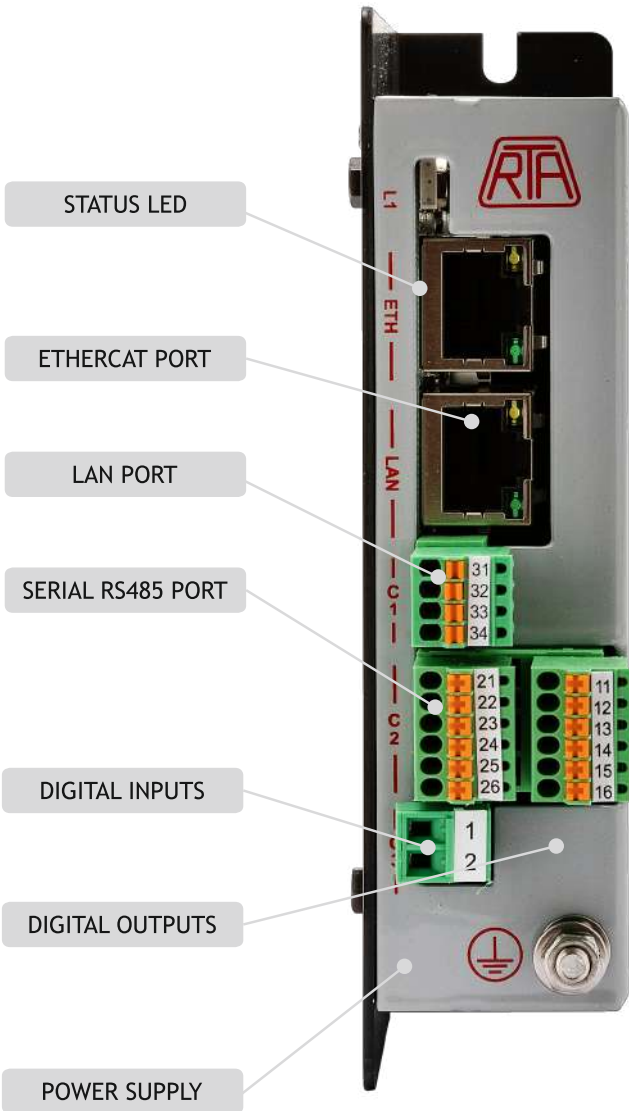
EtherCAT[®]  PLC + I/O



DESIGNED & DEVELOPED
100%
RTA

MiniMax is the new EtherCAT PLC series designed and completely developed by **RTA**, which grants easy configuration and programming for stepper and servo drives. It allows to develop EtherCAT automation solutions ranging from basic to medium complexity. A useful Modbus TCP/IP server is featured on the additional LAN Port: **MiniMax** can easily be connected and integrated with HMIs, third party PLCs, Industrial PCs and other network devices.

MiniMax PLC Series Features



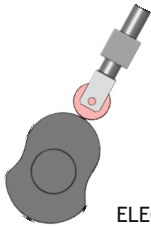
- RTA Studio: unique software environment for configuration and debugging
- Smart Structured Text programming language with built-in function libraries
- Full RTA and SANYO DENKI EtherCAT drives compatibility
- Easy integration with other automation systems by Modbus TCP/IP, UDP and Modbus RTU
- Up to 20 realtime parallel processes
- Compact Size: 32x130x106 mm
- Advanced Axes Motion Interpolation
- 5 Digital Inputs + 5 Digital Outputs
- **RTA Wiki** platform available for further technical insights



Discover the potentialities of the Series: check the **MiniMax Series** presentation inside the RTA official YouTube Channel

MiniMax versions comparison

MiniMax A1	MiniMax R2
8 basic axes*	20 basic axes
2 advanced axes▲	20 advanced axes



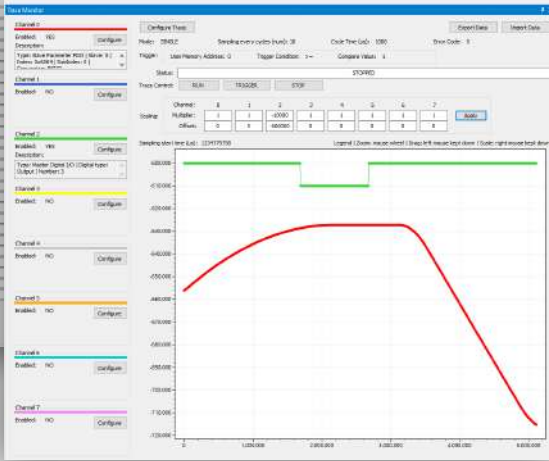
ELECTRICAL CAMS MANAGEMENT

- * Basic axes: point to point movements and homing (CSP mode of operation)
- ▲ Advanced axes: advanced axes interpolation, mechanical cam, gears and links

MiniMax Development Environment

Complete integrated environment for Microsoft Windows

Trace monitoring of automation process parameters



Easy programming language and debugging tools

```

27 power_on_axis(axis);
28
29 // wait 1 second
30 wait(1000);
31
32 cycles = 12;
33
34 while(cycles > 0)
35 {
36     if (get_input(1, 5) == 1) {
37         set_speed(axis, 2 * 360);
38         set_acceleration(axis, 360);
39         set_deceleration(axis, 360);
40         move_relative(axis, 5 * 360);
41     }
42
43     set_speed(axis, 4 * 360);
44     set_acceleration(axis, 10 * 360);
45     set_deceleration(axis, 10 * 360);
46     move_relative(axis, -7 * 360);
47
48     wait_until_movement_type(axis) == 0;
49     wait(1000);
50
51     cycles = cycles - 1;
52 }
53
54 power_off_axis(axis);
55
    
```

Quick Axis settings and testing setup

IOT ET D8.8 Module

The IOT module manages digital inputs/outputs, with integrated LED indication to display its status.

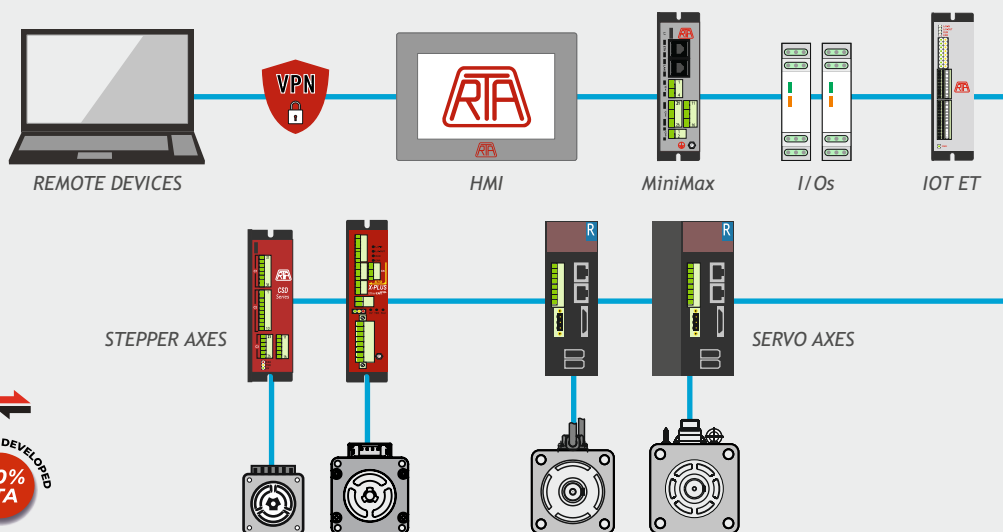
HIGHLIGHTS

- It receives digital logic commands, detect digital inputs status and controls digital outputs.
- EtherCAT[®] interface
- RTA's EtherCAT PLC *MiniMax* expansion or stand-alone unit
- 8 digital input
- 8 digital bi-directional output
- Power supply: 24 VDC
- Protections Over-Voltage and Shortcircuit for outputs



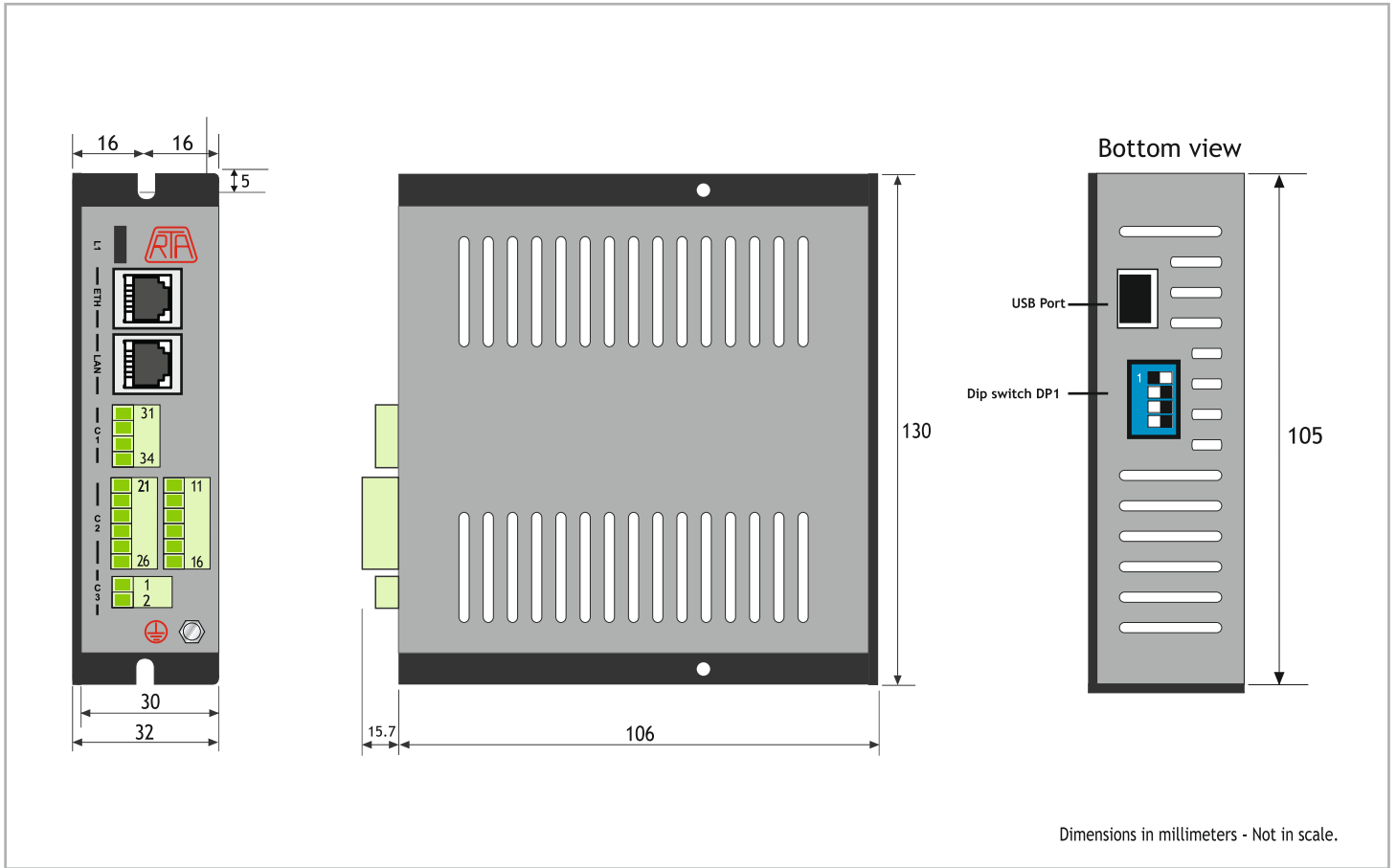
R.T.A. *MiniMax* SYSTEM EXAMPLE

UP TO 20 STEPPER & SERVO AXES

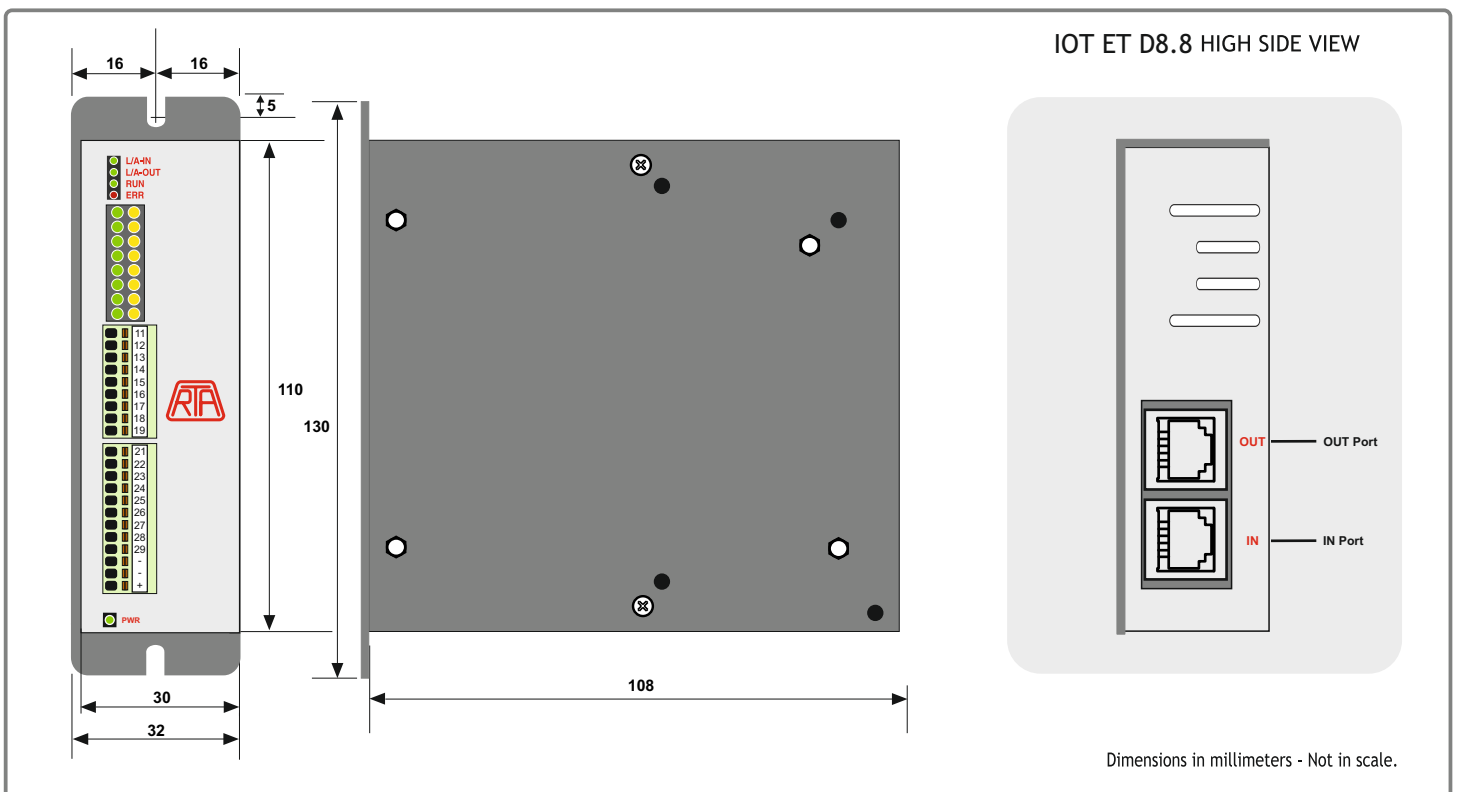


Mechanical dimensions

MiniMax R2 | MiniMax A1 - MiniMax Series



IOT ET D8.8 Module - MiniMax Series



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