

# LOW-CODE

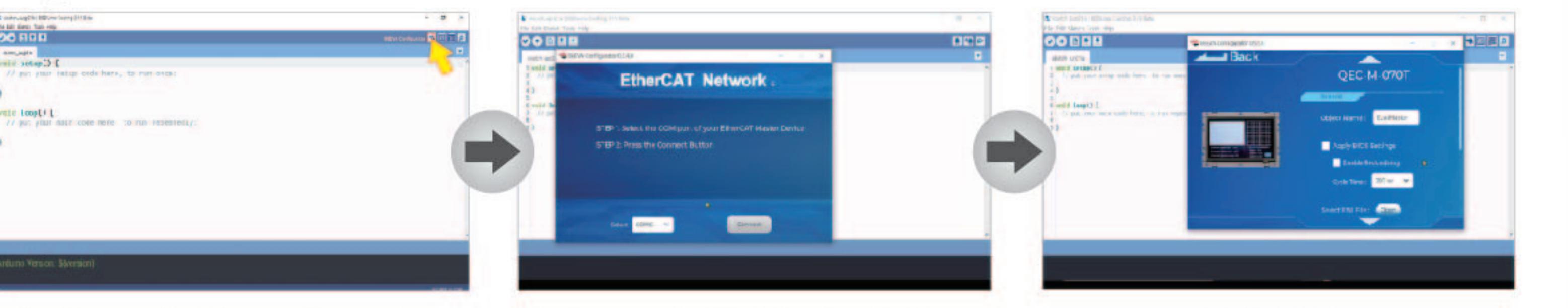
## DEVELOPMENT PLATFORM



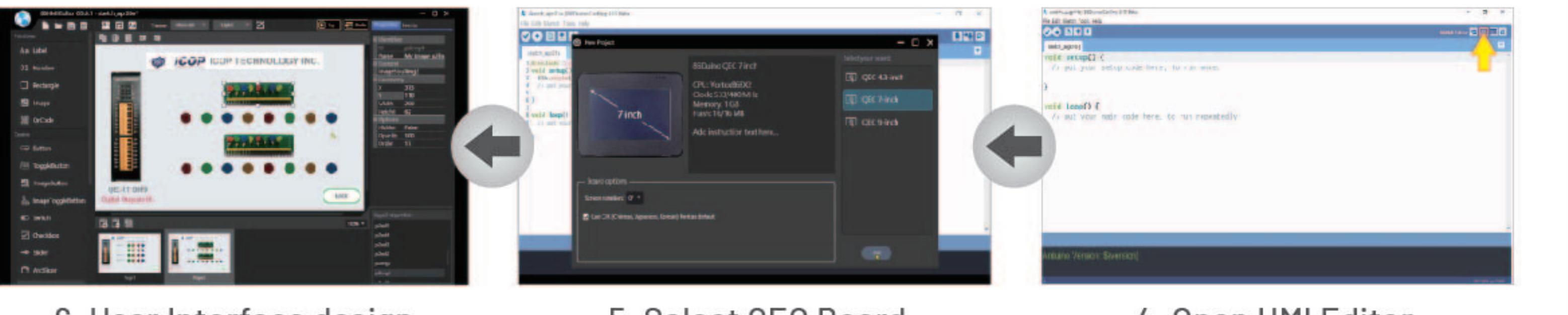
- ArduBlock Tools
  - User Interface Tools
  - 86EVA (EtherCAT) Configuration Tools

### Development Steps

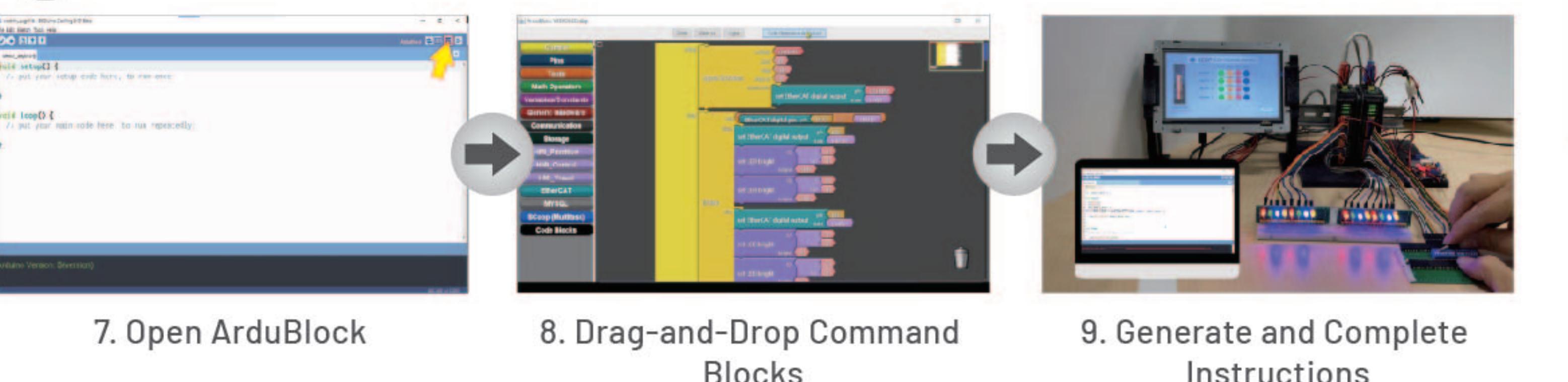
#### 1 86EVA (EtherCAT) Configurator



#### 2 HMI Editor



#### 3 ArduBlock



## Order Information



### EtherCAT Master Controller

- QEC-M-01(EMC)
- QEC-M-043T (EMC + 4.3"LCD)
- QEC-M-070T (EMC + 7"LCD)
- QEC-M-090T (EMC + 9"LCD)
- QEC-M-150T (EMC + 15"LCD)

Master



### EtherCAT Slave Module

- QEC-RxxD (Digital I/O)
- QEC-RxxA (Analog I/O)
- QEC-RxxHU (HID)
- QEC-RxxR (Relay Output)
- QEC-RxxJT (Junction)

I/O



### EtherCAT Slave Motor Control Module

- QEC-RxxMP1-S (Stepper Motor Controller)
- QEC-RxxMP3-S (Stepper Motor Controller)
- QEC-RxxMV1-S (T120 Servo Motor)
- QEC-RxxMV2-S (T600 Servo Motor)
- EtherCAT Converter

Motion

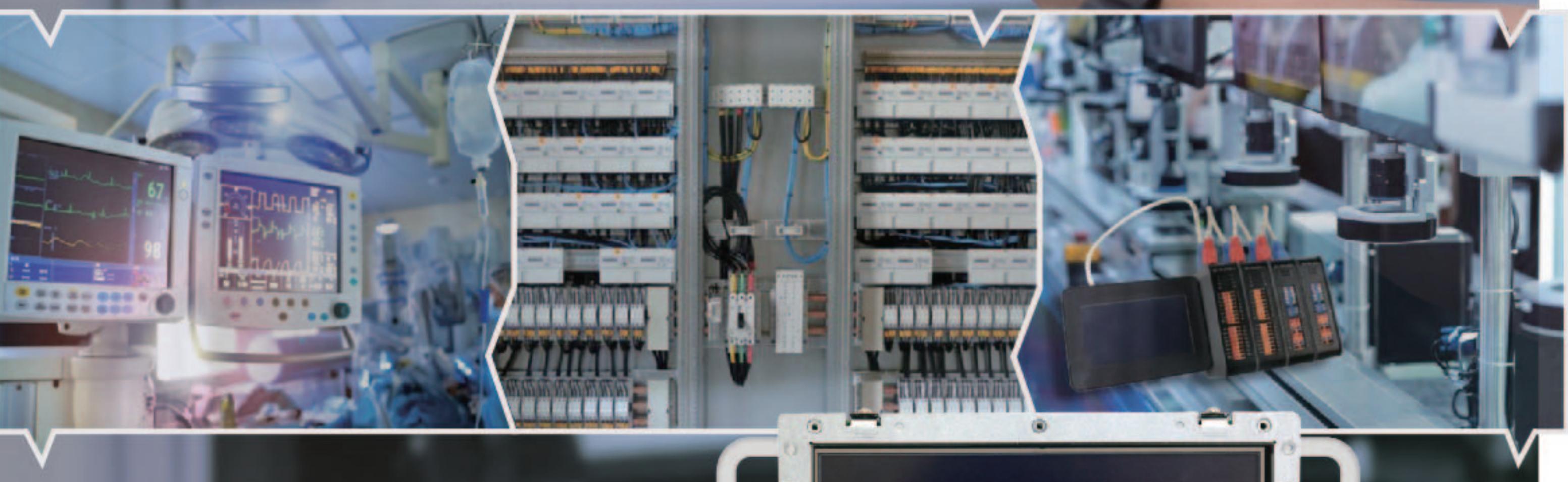
# ICOP x QEC

Intelligent control on processor

## ICOP EtherCAT Solutions

# QEC EtherCAT

ArduBlock Control for Big Data



# QEC Series Overview

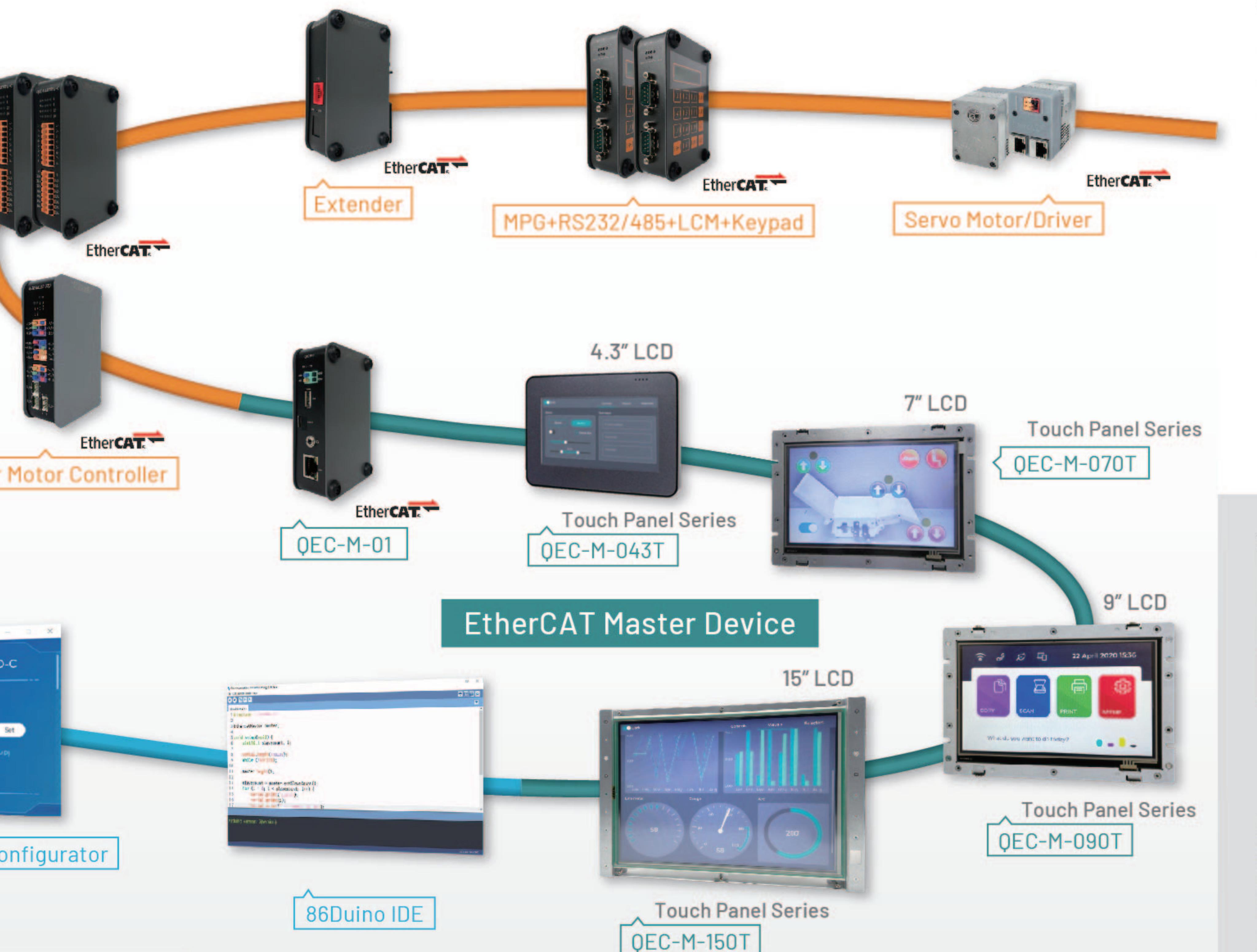
ICOP Technology provides a complete solution for EtherCAT – the QEC Series, which includes EtherCAT master motion controllers and EtherCAT slave modules (I/O, RS232/485, MPG, converters, motion control/drivers). With highly integrated hardware and software features, the QEC series supports a wide range of industrial automation applications and provides fast, simple, and often used/readily available functions while shortening development cycles. It can also build Database through MySQL library, which helps create smart IIoT technology.

## Easily Develop EtherCAT

QEC supports the Arduino development environment, allowing project development processes to be accelerated with rich built-in examples and libraries and making system configuration streamlined through virtual programming tools and database libraries. This results in an easy, accelerated EtherCAT solution.



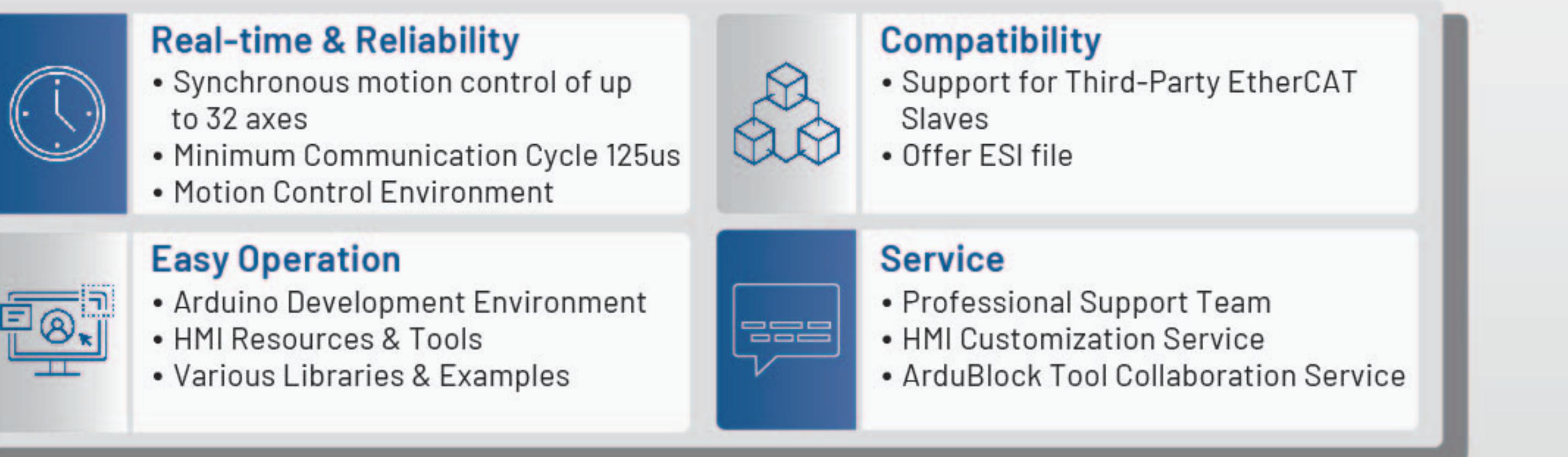
## EtherCAT Slave Device



## EtherCAT Master Device



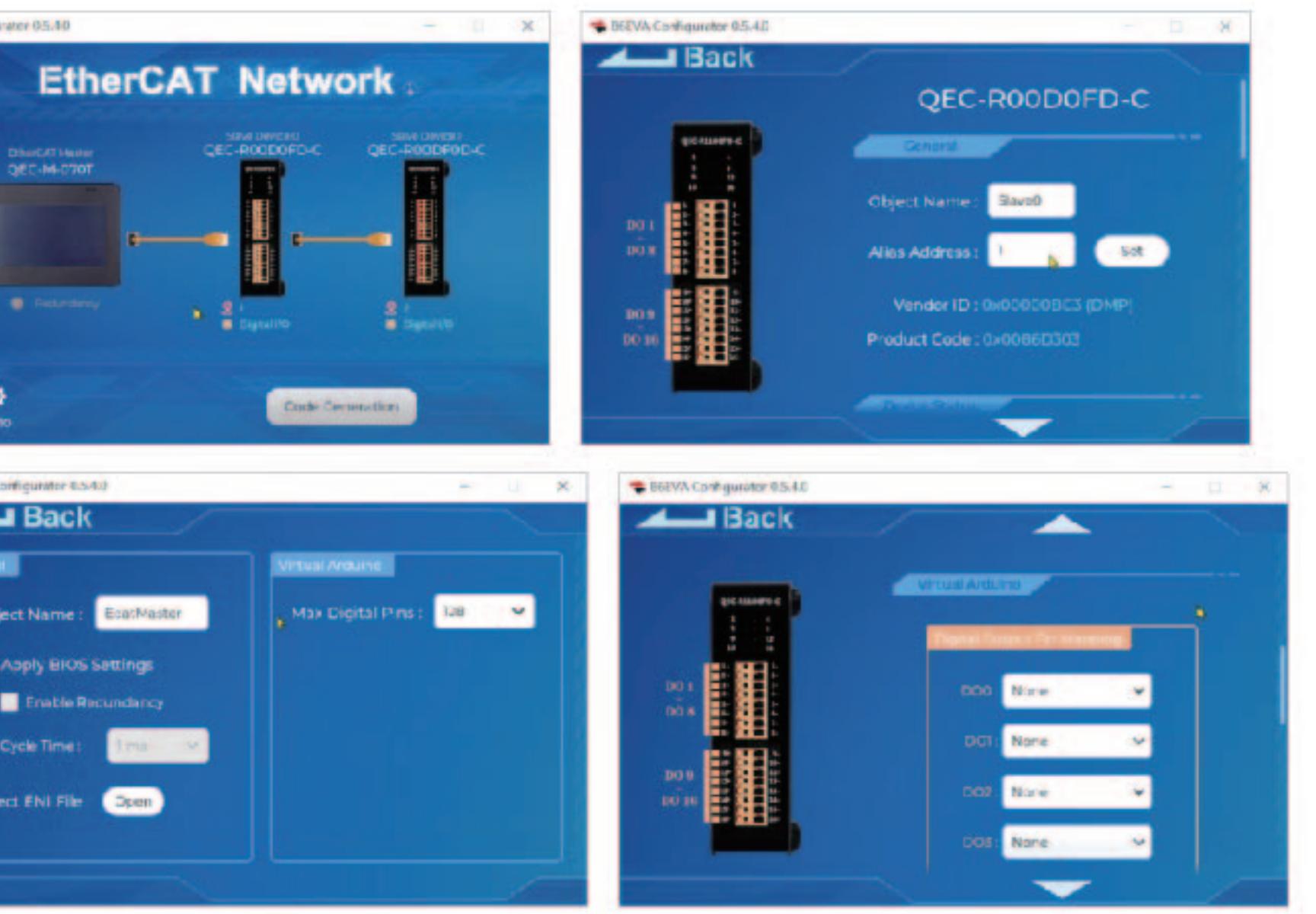
## Arduino Development Environment



# Arduino Development Environment

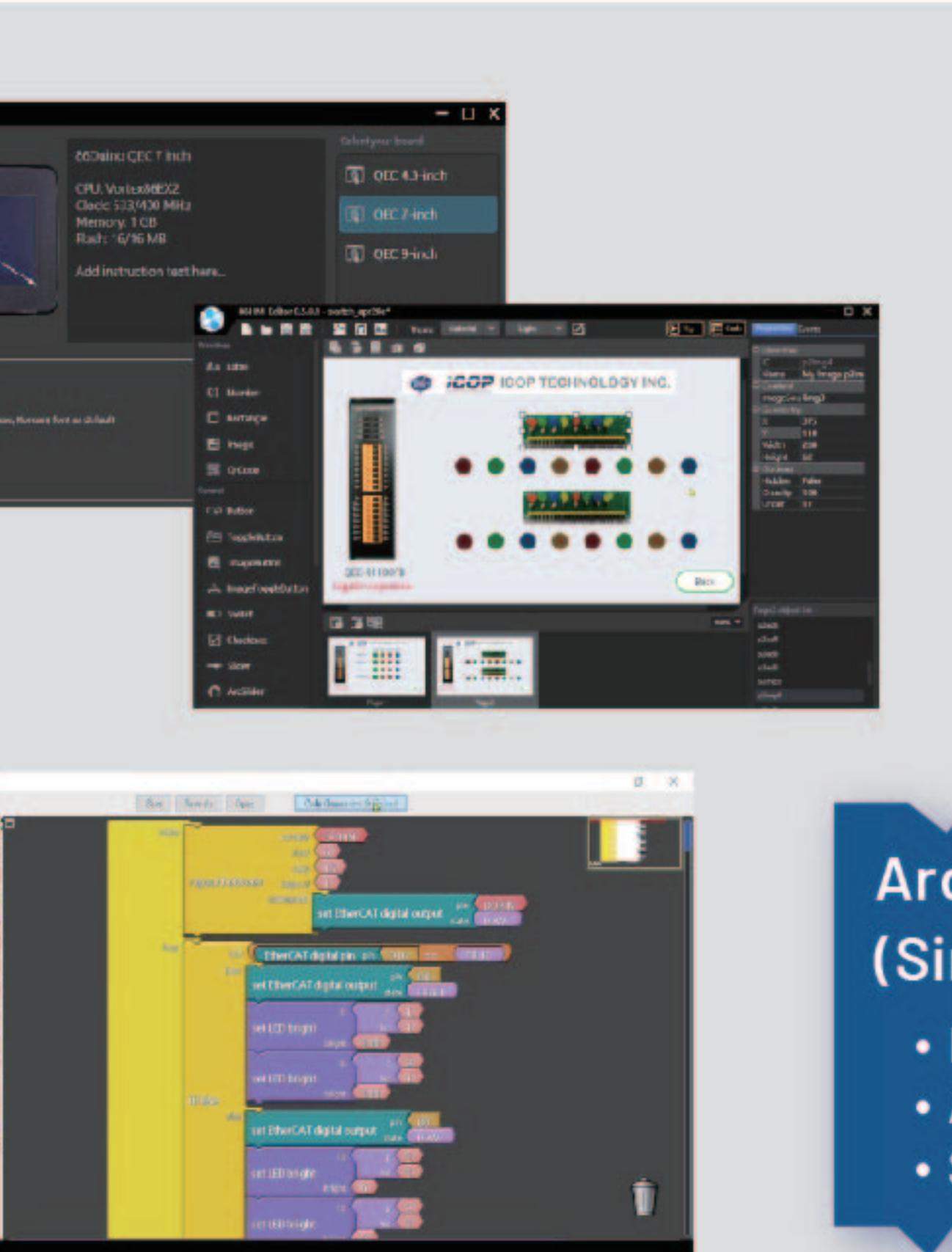
## 86EVA | EtherCAT Configuration Tools

- EtherCAT-Based Virtual Arduino
- Auto-scans QEC EtherCAT devices
- EtherCAT Master Settings:
  - \* Enter EtherCAT master Object Name
  - \* Select EtherCAT bus Cycle Time
  - \* Select EtherCAT Cable Redundancy Option
  - \* Select ENI file
- EtherCAT Slave Settings:
  - \* EtherCAT slave object settings
  - \* EtherCAT slave Alias settings
  - \* EtherCAT slave I/O settings
  - \* Display EtherCAT slave General Information
  - \* Review internal monitoring information (voltage, current, temperature)



## HMI Editor, GUI Design Tools

- Provides more than 20 configuration elements
- Automatically generates to LVGL language library



## ArduBlock, Drag-and-Drop Coding Tools (Similar to Scratch)

- Integrated Block Library
- Automatically generates to C++ language
- Straightforward virtual operation



## Standard Arduino Window

- Provides ECAT Lib API library
- Build-in CiA402/Modbus/MySQL libraries
- Integration of motion control commands

