

HARDWARE:**User Inputs and Outputs (Isolated):****Analog (optional by PCB population)**

- Two 16-bit Inputs
 - +/-10V, 0-10V
 - 0-20mA, 4-20mA
 - Vektor software configurable
- Two 16-bit Outputs
 - +/-10V, 0-10V
 - 0-20mA, 4-20mA
 - Vektor software configurable

Digital Inputs (User supplied power source)

- Eight
- 24V, 10mA
- Input common source or ground
- Source or Sink configurable by user connections

Control Feedback:

- Two Pressure or Force Sensors
 - 0-10Vdc or 0-20mA
 - Vektor software selectable
- Linear Position:
 - Standard Precision Kyntronics Linear Potentiometer
 - 0-10V
 - Higher Precision Linear Position Sensors
 - Analog Input
 - 0-10V or 4-20mA
 - Vektor software selectable
 - SSI Digital

Motor:

- Brushless Servo
- Quadrature encoder with Halls
- Field-Oriented Control

Digital Outputs (User supplied power source)

- Eight Standard
- Configurable by user connections
 - Sink
 - 0.5A, 24V max O.C.
 - Common pullup (~2500 ohms)
 - Output Common ground
 - Source with high impedance (~2500 ohms)
 - User supplied power source
- Eight Optional (with an option board)
 - Option 1: 12-60Vdc, 1A
 - Option 2: 12-230Vac, 1A
 - User supplied power source

Networking:

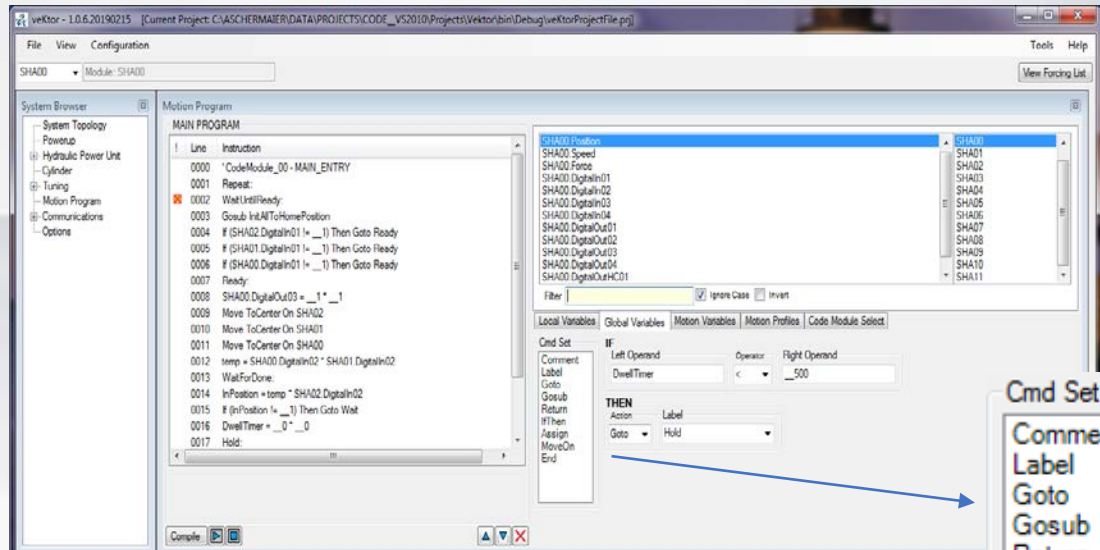
- Standard:
 - Ruggedized Modbus RTU
- Optional Isolated
 - Modbus RTU
 - Modbus TCP
 - Kyntronics K-Net
 - PROFIBUS
 - PROFINET
 - PROFINET IRT
 - Ethernet/IP with DLR
 - EtherCAT
 - POWERLINK

Configuration/Connectivity:

- RS-232
- Modbus RTU
- Bluetooth
- WIFI (Future)

Software:

- Simple – Intuitive GUI
- Auto Tuning (Position, Force, Velocity) – including on the machine dynamic tuning
- Programmable Motion Control
- Coordinated Motion
 - Digital Lock
- Scope
 - History / Playback
- Position Control with Force limits
- Position Control with Velocity limits
- Position or Force Control
- Diagnostics
 - Forcing I/O
- Historian – logging of key events
- Extensive debugging & scope capabilities



- Cmd Set**

 - Comment
 - Label
 - Goto
 - Gosub
 - Return
 - IfThen
 - Assign
 - MoveOn
 - End

