**System Configuration**

- Configurable controller for up to 8 axes of EtherCAT Master with any of the first 4 axes for local control or EtherCAT Master
- 10/100BASE-T Ethernet port; (1) EtherCAT Port; (2) RS232 ports up to 115 kbaud
- Available with internal, multi-axis servo or stepper drives. Or, connect to conventional external drives (only first four axes)
- For local axes, accepts up to 22 million counts per second of quadrature encoder for servos; Outputs up to 6 MHz for steppers; EtherCAT command speed up to 1 billion counts per second
- Sample times as low as 375 microseconds for 1-4 axes and 750 microseconds for 5-8 axes
- First four axes, advanced PID compensation with velocity and acceleration feedforward, integration limits, notch filter and low-pass filter
- Modes of motion include jogging, point-to-point positioning, position tracking, contouring, linear and circular interpolation, electronic gearing, ECAM and PVT
- Ellipse scaling, slow-down around corners, infinite segment feed and feed rate override
- Multitasking for concurrent execution of up to eight application programs
- Non-volatile memory for application programs (4000 Lines), variables and arrays (2400)
- Dual encoders for every local servo axis
- Optically isolated home input and forward and reverse limits for every local axis; Uses EtherCAT drive for home and limit switches
- Uncommitted, I/O: • 8 optically isolated inputs and 8 optically isolated outputs
  - Isolated, high-power outputs for driving brakes or relays (local axis only)
  - 8 uncommitted analog inputs
  - High speed position latch and output compare
  - 32 additional 3.3 V TTL I/O (5 V option)
  - More I/O available with RIO PLC
- 2 line x 8 character LCD
- Accepts single 20 - 80 VDC input
- Communication drivers for Windows and Linux
- Custom hardware and firmware options available

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**Features**

- Available in 2, 4, 8, 16, and 32 axis configurations
- 10/100BASE-T Ethernet port; (1) EtherCAT Port; (1)
- USB port
- EtherCAT cycle time 1000 microseconds
- Cyclic Synchronous Position mode (CSP)
- Modes of motion including jogging, point-to-point positioning, position tracking, contouring, linear and circular interpolation, electronic gearing, ECAM and PVT
- Ellipse scaling, slow-down around corners, infinite segment feed and feed rate override
- Multitasking for concurrent execution of up to eight application programs
- Non-volatile memory for application programs (4000 Lines), variables and arrays (2400)
- Inputs including forward limits, reverse limits, and homing inputs are located on drives that support these inputs
- Uncommitted, I/O: • 8 optically isolated inputs

**Application Sample**

**Customer Stories**


**Sample DMC Code**


**System Configuration**

- PC
- Ethernet
- USB
- DMC-500x0 EtherCAT 1-8 axis Master
- DMC-574x0 EtherCAT I/O
- MINAS A5B
- Up to 4 axes
- Up to 8 axes
- Up to 32 axes

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**Sales areas and Languages**

Galil Headquarters in California

World-wide sales network

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