 microMAX *R*microMAX *R***A compact high performance digital drive**

The microMAX *R* distributed motion controllers were designed to meet the needs of customers who need the most compact design servo controller on the market. The microMAX *R* controller has one embedded power amplifier that can be configured to different power ratings. Agile has wrapped a high performance DSP motion and control engine into the microMAX *R* product to allow the customer to design high performance electronics into their machines.

microMAX *R* integrates motion control, servo amplifier, networking capabilities and user I/O in a very compact package. It is easily mounted into an automated machine to significantly reduce wiring and compress the overall size of the equipment. Combining all of these features within a compact package makes the microMAX *R* an ideal choice for a machine builder to gain a competitive advantage where both cost and performance are required.

The backplane (BP) version of the microMAX *R* series controller allows the user to create their own PCB backplane board. This allows the user to minimize the wiring further.

**Key Features**

- ❖ Drive up to 1080W (Peak, 85° C) brushless motors
- ❖ 20kHz current loop
- ❖ Integrated servo amplifier and motion control
- ❖ Position loops at 4kHz
- ❖ Multiple filters
- ❖ High-speed position capture
- ❖ User configurable event/response mechanism
- ❖ Sinusoidal commutation
- ❖ S-curve trajectory profiles
- ❖ Programmable with DP·Win™ software that allows users to perform drive setup
- ❖ Configuration, tuning, analysis and drive programming quickly and easily
- ❖ PTP, PT, PVT pulse and direction modes of operation

**Product Benefits**

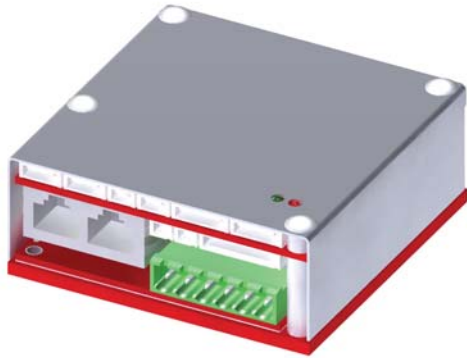
- ❖ Reduction in cabling up to 50% - Increases reliability
- ❖ Decreases cabling cost
- ❖ On board processing
- ❖ Remote processing - OFF load host processor - Increases performance
- ❖ Common interface for all types of motors
- ❖ Common interface for all Agile Systems Digital Power products
- ❖ Small form factor for placement in tight spaces or next to motors

**Applications**

- ❖ Industrial Robotics
- ❖ Printed circuit board Assembly Equipment
- ❖ Lab Automation
- ❖ Semiconductor Process Tools
- ❖ Semi Fab Automation
- ❖ Packaging Equipment

**Verticals**

- ❖ Life Science
- ❖ Semiconductor
- ❖ Automation
- ❖ Photonics
- ❖ Automotive



### microMAX *R* locking connector (LC) Version

The microMAX *R* locking connector version (LC) employs a sturdy but contact positive locking connector for its I/O interface.

#### Dimensions:

L: 3.05"/77.47mm W: 3.05"/77.47mm H: 1.25"/31.75mm



### microMAX *R* backplane (BP) Version

The microMAX *R* backplane version (BP) is designed to plug directly into the customer's own PCB assembly.

#### Dimensions:

L: 3"/76.2mm W: 3.25"/82.55mm H: 1.25"/31.75mm

\* product shown with optional mounting hardware.

### Product Specification

Product	microMAX <i>R</i> (LC)	microMAX <i>R</i> (BP)
Amplifiers	1	1
Amplifier Options	5A, 15A (Peak)	5A, 15A (Peak)
Motor Voltage	90V Max	90V Max
Logic Voltage	12V Min—28V Max	12V Min—28V Max
Network Options	Serial (RS232/485/422), Firewire B CAT5 Ethernet	Serial (RS232/485/422), Firewire B CAT5