



*LEADING THE WAY OF INNOVATION*

# **EQUIPE ESC 200 Series GENERATION 2**

**Smart Robot Controller**

**Milara delivers total automation. The company's hardware, software and services can manage every wafer, reticle and data movement in the fab, helping semiconductor manufacturers accelerate time-to-market while reducing their risk. Milara products are used in virtually every fab in the world.**

**Equipe GEN2 controller is a complete robotic control system for up to 8 axes of motion**

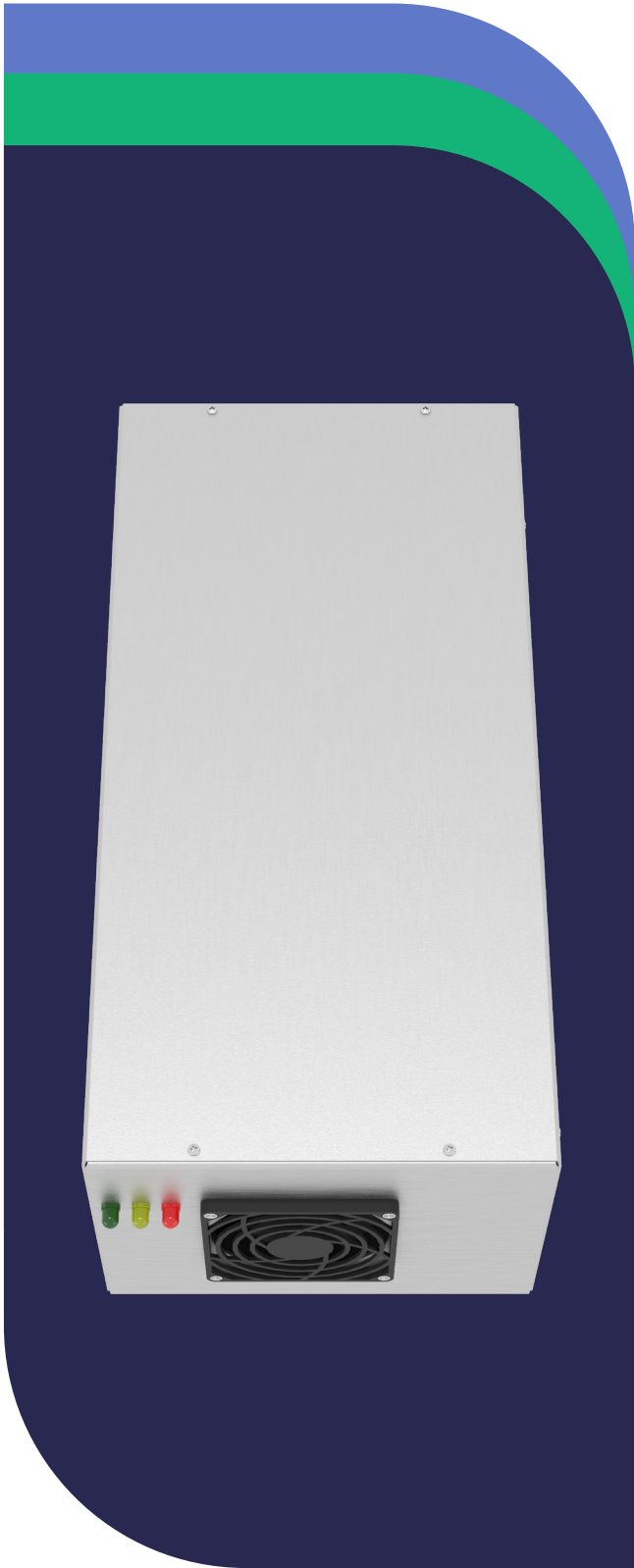
Milara's ESC 200 Series smart robot controllers provide fast, reliable motion control, built-in self-diagnostics and extensive external I/Os to make system integration quick and easy.

**Equipe GEN2 controller - designed for ease of use**

Milara's second generation controllers feature new high efficiency and low-voltage servo drivers allowing even higher precision of each movement. A new generation control system with unlimited number digital and analog inputs and outputs provides easy integration with any type of application.

All ESC 200 Series controllers feature external LEDs that provide a visual indication of controller status. The system utilizes user-friendly macros to create customized high-level commands. The macros allow emulation of competitive robot software and make system integration a snap, helping you get products to market more quickly.

The optional handheld Teach Pendant with Touch Screen and live-man switch provides a simple and convenient method of teaching robot coordinates and includes on-board diagnostic and terminal mode software packages.



Dimensions	
Width	215.90mm [8.5"]
Height	196.36mm [6.668"]
Length	451.50mm [17.776"]

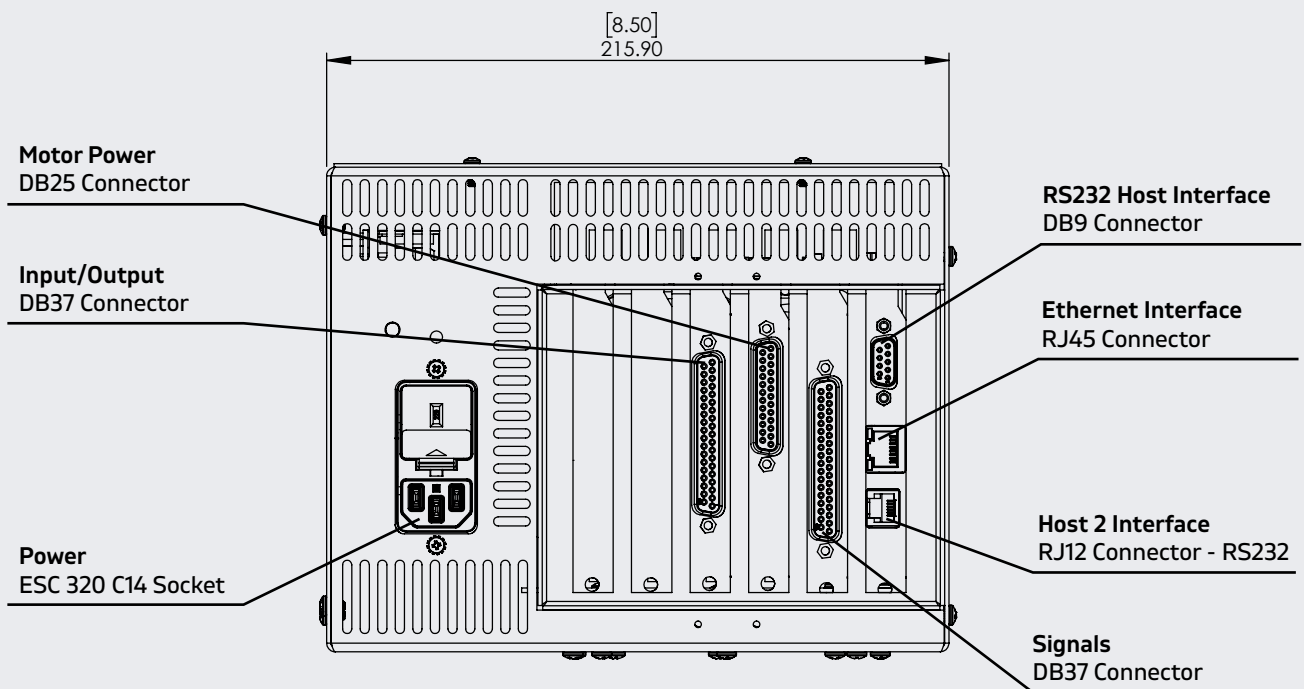
## FEATURES

- "S-Curve" motion profiles provide smooth, fast wafer transfers.
- Optimized for fast wafer swaps.
- High throughput.
- Unlimited number digital and analog inputs and outputs.
- Improved stiffness and orthogonality.
- Multitasking control of sophisticated functions.
- CE and UKCA compliant.
- Compliant with SEMI standards - SEMI S2, S8, S22.

## DROP-IN REPLACEMENT



Fully compatible, direct replacement for Equipe Generation 1 Robots



All dimensions are in mm [inch]

### Intelligent control for increased throughput

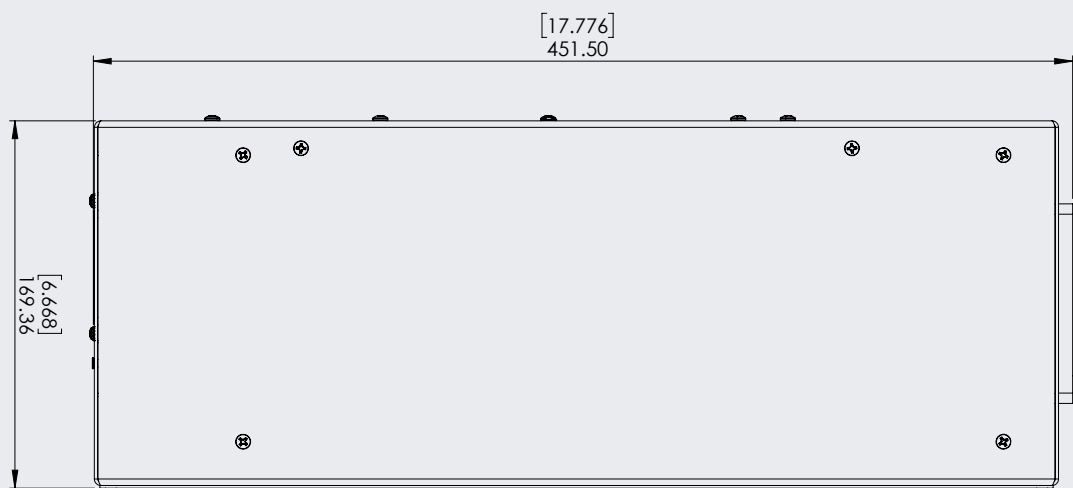
Multitasking control of sophisticated functions minimizes host system interaction to speed throughput. The system can, for example, prealign one wafer while the robot transfers another wafer.

And, when used in conjunction with the unlimited number of digital and analog I/Os, the unit can monitor and control external devices from within the robot macros, thus freeing the host computer to perform other tasks.

"S-Curve" motion profiles provide smooth, fast wafer transfers and increased robot life, while the proprietary time optimized trajectory option increases wafer throughput up to 33% over conventional motion profiles. The ESC-200 provides built-in support for all options, including Flipper, Linear Track, SMIF pods and Wafer Scanner.

### Compliant with safety and regulatory standards

The control system is compliant with SEMI standards - SEMI S2, S8, S22, allowing easy integration in any semiconductor FAB. Standard CE, UKCA mark and TUV (IEC/UL 61010-1), KCs (KOSHA) certification make regulatory compliance easier.



All dimensions are in mm [inch]

### General specifications

CPU	Quad-Core ARM Cortex-A72 (ARM v8) 64-bit SoC 1.5Ghz
RAM	4GB or 8GB LPDDR4-3200 SDRAM
Memory	16GB or 32GB eMMC Flash memory
I/O Ports	Unlimited number digital and analog inputs and outputs
Communication	RS232 Communication port
	Ethernet Communication port
	RS232 Communication port (for Teach Pendant)
Compliance	CE and UKCA compliant. TUV (IEC/UL 61010-1) and KCs (KOSHA) certified. Compliant with SEMI standards - SEMI S2, S8, S22.
Power	100-240 VAC; 50/60 Hz.