

# SMC Supervisor

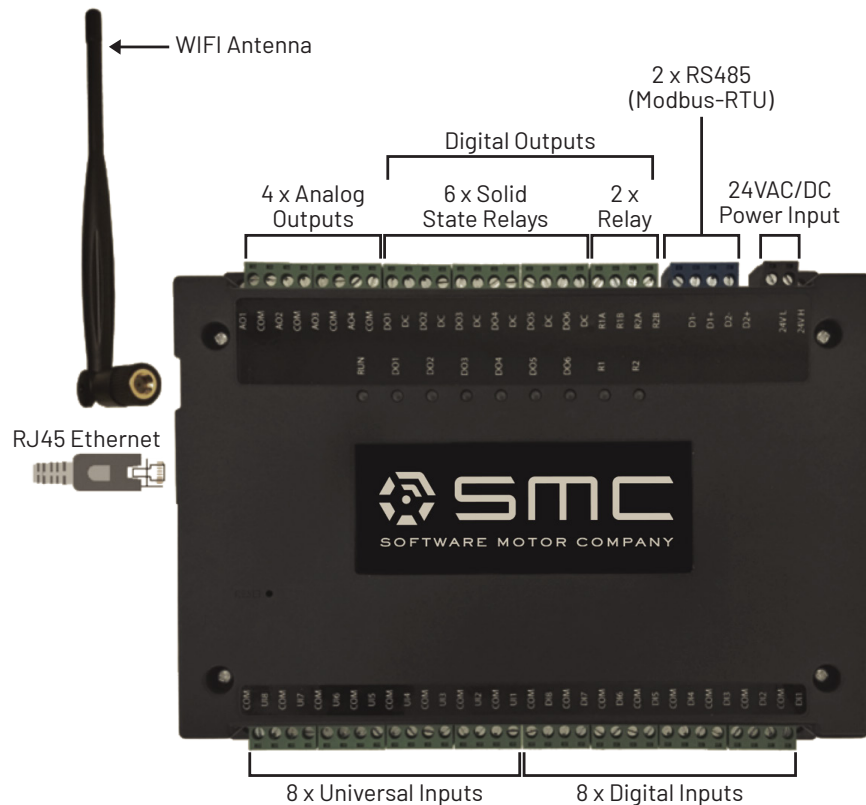
The SMC Supervisor is used to connect multiple SMC Motor Systems on a site and provide connectivity to SMC Cloud Services or a BMS system. With the ability to manage up to nine motor systems, it can coordinate operation, provide continuous real-time monitoring data to the SMC Cloud Service, and enable direct control and monitoring capability via BACnet to BMS systems. The Supervisor communicates to the SMC Smart Motors via a twisted pair network or 802.11 Wifi.\*

The SMC Supervisor provides connections for a multitude of physical I/O and is configurable with SMC Cascade™ configuration software, completing a very flexible gateway product as detailed in this data sheet.



\*Available Q4 2018

FEATURES	SMC SUPERVISOR BENEFITS
<p><b>Provides single communication connection for up to nine motors</b></p>	<p>Reduces field wiring and simplifies connection to BMS or SMC Cloud Services.</p>
<p><b>Local or remote firmware upgrades for SMC Smart Motors</b></p>	<p>System upgrades improve motor efficiency and operation, increasing SMC Smart Motor energy savings over time.</p>
<p><b>Building management protocol support through native BACnet/IP</b></p>	<p>Leverages industry standard communications protocols, allowing for seamless integration with existing equipment and systems.</p>
<p><b>Supervises up to nine SMC Motor Systems</b></p>	<p>Provides a single, scalable point of connection for remote monitoring and management of the motor systems.</p>
<p><b>Full complement of control and monitoring I/O:</b></p> <ul style="list-style-type: none"> <li>• Eight universal (voltage, current or resistive) inputs</li> <li>• Eight 24VAC digital inputs</li> <li>• Eight digital outputs</li> <li>• Four analog outputs</li> <li>• Linux based system architecture and standards-based software</li> </ul>	<p>Reduces total cost of implementation by minimizing need for additional BMS equipment with no licensing requirements.</p>
<p><b>Pre-configured for Automatic Digital Economizer Control</b></p>	<p>Approved for rebates by several utilities in the United States. Reduces payback period for retrofits.</p>



TYPE	QTY	SPECIFICATION	NOTES
Digital Output	2	1A, 125VAC	2 Relay contact output
	6	2A, 24VAC	6 Triac outputs
Digital Input	8	0-24VAC	Isolated Inputs on Rev C
Analog Output	4	0-10V, 20mA	Source follower buffered
Universal Input (Independently configurable as):	8	0-10V	Single ended voltage mode
		0-20mA	Current loop mode
		RESISTIVE	Resistive sensing, e.g. Thermistors
		LOGIC	Open returns Logic 0 and shorted returns Logic 1

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The Silicon Valley based Software Motor Company is setting a new standard of efficiency, reliability, and intelligence with the SMC Smart Motor System. SMC combines modern computing and software control with the proven reliability of switched reluctance motor technology to achieve an unprecedented optimal efficiency. The patented SMC Smart Motor System only uses energy when it is needed, thereby significantly reducing space conditioning and refrigeration energy costs. A fully programmable IoT controls package facilitates maintenance savings and easy integration with existing building systems.