

MIC - Machine in Charge™

Advanced power and HVAC system integration and control



Overview

The MIC™ is an advanced programmable logic controller (PLC) specifically designed for the wireless communications industry. The MIC integrates power systems, HVAC and site systems, such as alarms. With a compact 1U size, the MIC is easily deployed in existing racks, in outdoor cabinets and other equipment rooms and enclosures. All functions are software configurable, allowing the MIC to accept customer-provided code and highly customizable monitoring and control features.

Applications

- ❖ 1U rack-mounted unit with multiple I/O
- ❖ 8-inch depth, with rear data cable service loops
- ❖ Integrates multiple site systems:
 - DC power, batteries, BMX™, HVAC, generator, wind power, PV power, alarms, automation control.
- ❖ Technicians get real-time site data.
- ❖ Logs site system data for local upload and remote access.
- ❖ Enables cost-saving power management features:
 - PV/Wind Cycling, Grid Timing, Peak Shaving, Demand Response, Dynamic Demand Response, Demand Override, HVAC Controls.

Accessory Kits:

- ❖ HVAC thermal kit:
 - Reduce power consumption/maintenance by adjusting HVAC set-points.
- ❖ Ground monitoring anti-theft kit:
 - Increases security and reduces theft risk by maintaining site alarm integrity.

Size and Weight	
Height	1U = 1.75 inches (44.5 mm)
Width	17.0 inches (432 mm)
Additional clearances	2.0 inches (51 mm)
Depth	9.02 inches (229 mm) includes connectors
Additional rear clearance	For power connections and cabling: 1.5 inches (38 mm)
Weight	4.5 pounds (2.0 kg)

Environmental	
Operating temperature range	-40° to +85°C (-40° to +185°F)
Relative humidity	5% to 95%

Interfaces	
Programming/Data Download	USB Micro (Front Panel)
System I/O, DC Power	(2) DB25, (1) DB9 (Rear Panel)
A/C Power	3-Pin IEC 250 V AC (Rear Panel)
Reset	Recessed pin
Power Input	24 or 48 VDC (via DB25)
Power Consumption	<400 milliamps

User Interface	
User controls (for reset, changing settings, displaying system data)	(4) Toggle Switch (Front Panel)
Data Displays	(2) 16x2 OLED (Front Panel)

Specifications are subject to change without notice



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