

Plug & Play Autonomous Control. Palm Sized I/O.

Cell Modules

PassiveLogic® Cell® modules are smart, distributable controllers—the building blocks of the PassiveLogic autonomous building platform. Cell modules adapt to most applications in any location. They plug into the PassiveLogic Hive™ and Hive Mini™ controllers, providing software-definable I/O. With just a few clicks in Autonomy Studio™, you generatively design your I/O, step through guided wiring, and create a custom configuration to meet any project's requirements. The Cell modules were designed with installers in mind—the modules ensure accuracy and virtually eliminate manual commissioning through built-in power monitoring, automated I/O testing, and digital point mapping and labeling.

Cell I/O. Meet the Modules.

There are four different PassiveLogic Cell module types for multiple use cases and protocols:

- Multi™ Cell for general purpose I/O
- Relay™ Cell with three single-pole, single-throw, normally open relays
- Power™ Cell for directly powering AC loads
- Motor™ Cell for DC electric motor applications

Software Defined I/O. Full Flexibility.

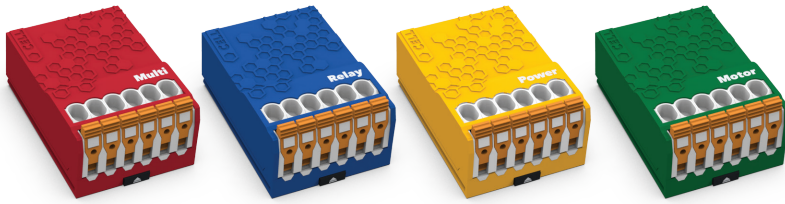
Push a Cell module into any Hive controller to lock it in. The Hive instantly recognizes the Cell module type, adds it to the system, and automatically updates your digital twin. Cell I/O configurations are software-defined, so the system understands each connection and can make changes without needing physical wiring adjustments.

Automated Testing. Every Wire Monitored.

Wiring is easy with our time-saving, toolless lever-lock terminals and LED indicators. Every Cell module terminal has built-in voltage, current, and power monitoring. Cell modules continuously monitor their wired connections to ensure that the system is properly configured and running optimally. Continuous commissioning is now a practical reality.



Cell Modules



Multi Cell Module (6 software-defined ports)			
Input Support			
Temperature	Thermistors, RTD	Digital	0-24VDC
Voltage	0-24 VAC, 0-24 VDC	Frequency	0-10kHz
Current	0-20 mA	Resistance	0-1MΩ, auto-ranging
Output Support			
Analog	0-20mA, 0-25VDC @ ≤ 80mA	Current	0-20mA, programmable
Digital	0-25VDC, programmable	Power	24VAC, 500mA
Ground			
All ports	Software-defined and individually groundable		
Serial Communications			
Protocols	BACnet MS/TP, Modbus RTU, 1-Wire		
Relay Cell Module (3 single-pole, single-throw, normally open relays)			
Supports	Motors, fans, pumps, lighting, and more		
Features	Voltage, current, and power monitoring for contacts of each relay		
Contacts	Rated 250VAC, 10A		
Power Cell Module (2 power control blocks)			
Supports	Motors, fans, pumps, lighting, and more		
Features	Voltage, current, and power monitoring for each output		
Power	2 outputs, up to 1 Amp, voltage equal to Hive power supply voltage		
Motor Cell Module (2 DC motor control blocks)			
Supports	DC motors, motor control		
Features	PWM speed control, voltage, current, and power monitoring, overcurrent/torque protection, optional tachometer feedback external drivers		
Power	Up to 12 VDC at 2 Amps or 24 VDC at 1 Amp		
Wire Options (All)			
Wire gauge	10-24 AWG		
Mechanical (All)			
Depth Height Width	3.05 in (77.53 mm) 1.27 in (32.34 mm) 1.98 in (50.20 mm)		
Weight (varies by Cell)	≈ 2.8 oz (80 g)		

Plug & Play. Literally.

Cell Modules

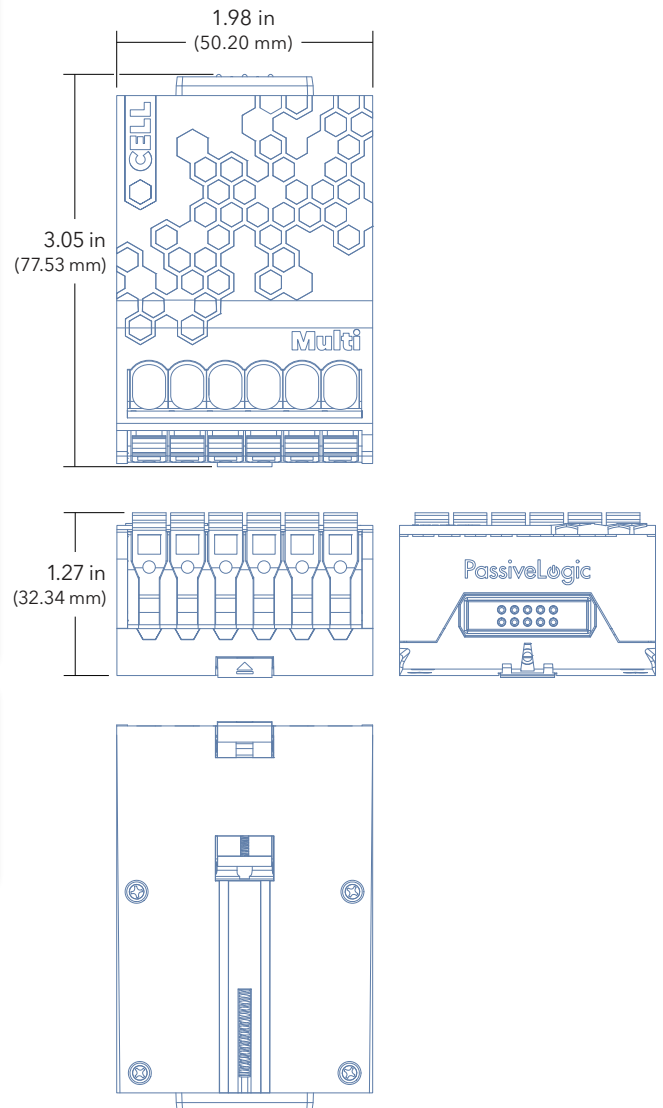
The PassiveLogic Ecosystem

All Cell® modules are compatible with the PassiveLogic Hive™ and Hive Mini™ controllers. In the Hive controller, use up to eight Cell modules for a total of 48 control points. For the Hive Mini controller, install two Cell modules for a total of 12 control points.

Push a Cell module into the PassiveLogic Hive or Mini controllers and it locks into place, then eject it with the push of a button. Cell modules include our toolless terminals that securely connect to almost any wire (10-24 AWG).

Cell module types are automatically identified by the PassiveLogic Hive and Mini controllers. Only use the Cell modules you need—no more tricky point license pricing structures.

In Autonomy Studio, I/O is software-defined, and the visual wiring assistant helps you avoid common errors during the wiring and installation process. On a Cell module, the green LED indicator light means you're good to go.



Patents: www.passivelogic.com/patents.

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