

# IntelliArb – Powersim Profile

## A New Look at Waveform Generation

Harborside IntelliArb with the Powersim profile enables autonomous 3-phase power simulation. With this best in class waveform generator, users can create any series of power waveforms, making IntelliArb a one stop shop for all 3-phase meter testing.

### Key Features

- 8 channel, 16-bit waveform generator
- Selectable output ranges
- Outputs isolated from supply/communications
- 2 channels for DC outputs
- Timing down to individual line cycles
- No PC communication required during test
- Relay for external device control

### Use Cases

#### Firmware Development

- Test instrumentation code while writing
- Generate precise load levels

#### Firmware Verification

- Precisely test metering functionality
- Easily integrate into existing test scripts

#### System Verification

- Generate known varying loads to verify on the head-end system
- Easily generate all logged metering events

### Upgrades

IntelliArb with Powersim Profile is firmware upgradable for new feature availability.



### Electrical Characteristics

Voltage Output Ranges	0-5 V 0-10 V +/- 2.5 V +/- 5 V +/- 10 V
Relay	10 A, NO/NC operation

### Interfaces

Windows Application	Static output control Test Configurations - Waveform sequences - Event based triggers
Scripting	COM DLL (Python, .NET, JavaScript)
Web Server	View Status Control Tests
Protocols	ANSI C12.19* ANSI C12.21 ANSI C12.22

\* Table definitions available for use by third-party applications

### Connectivity

RS232	C12.21, C12.22 115200 baud - 8N1
USB	C12.21, C12.22
Ethernet	C12.21, C12.22