



## PROGRAMMABLE IGNITION SYSTEM

*Championship winning  
performance for 4, 6 & 8  
cylinder engines*

### X1i IGNITION CONTROL UNIT

#### Programmable Ignition System

The X1i is a distributorless ignition system for 2, 4, 6 and 8 cylinder engines and designed for racing applications such as Midgets, Silver Crown, Stock Cars, Modifieds, Desert and Offroad.

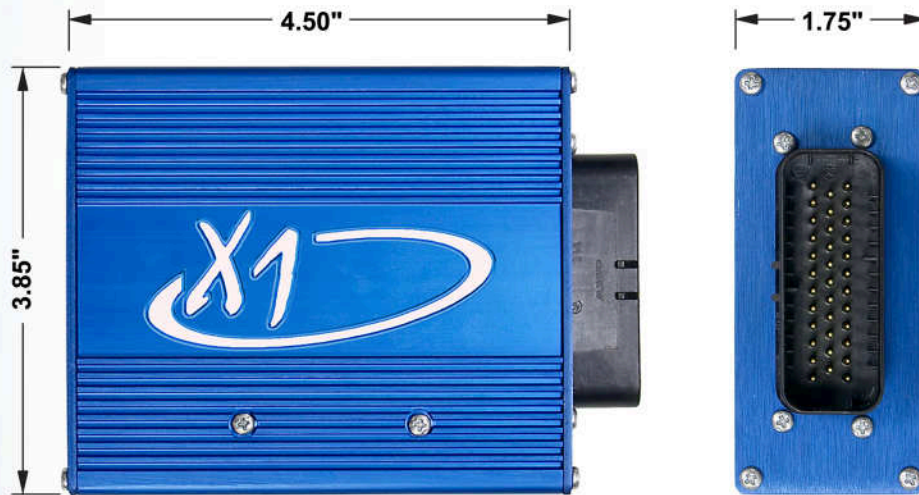
The core to this system is a powerful 32 MHz microcontroller that constantly measures rpm and engine sensors and makes calculations over 1000 times a second allowing complete and accurate control of the ignition timing in 0.25 deg increments from idle to 18,000 rpm.

The advanced programming features in combination with our unique and proprietary coil drive circuitry guarantees the maximum spark energy from each coil throughout the entire rpm range. The Power to Win software allows the user to accurately program the ignition timing throughout the complete engine rpm range to fully optimize engine performance and throttle response.

Additional features such as the programmable rev-limiter and optional shift lamp help protect the engine from potentially damaging overrevs. The built in self diagnostics feature records the maximum engine RPM, number of overrevs and any error codes to help diagnose problems.

The system utilizes a simple to manufacture 5 tooth trigger wheel and single magnetic pickup. Contact your EFI representative for compatibility with other trigger wheel types.





## X1i IGNITION CONTROL UNIT Technical Specifications

### SOFTWARE

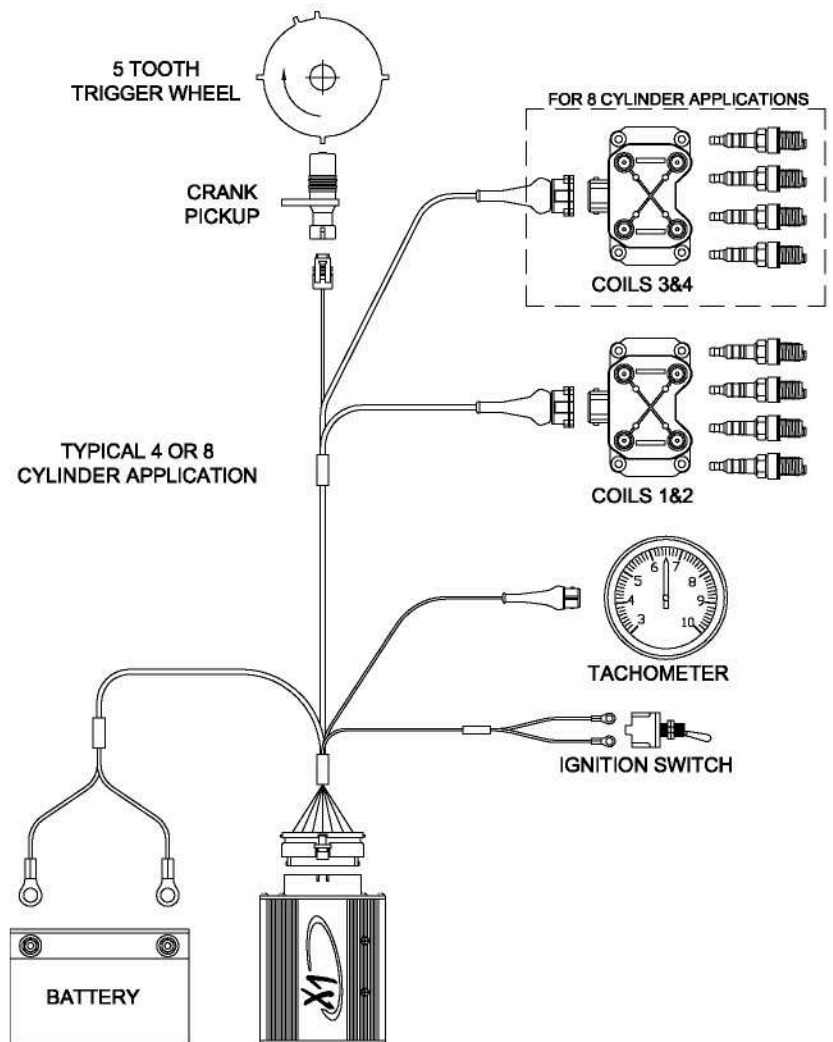
- Timing curves
- Rev-limiter
- Shift lamp
- Coil charge time
- Battery compensation
- Error codes

### INPUTS/OUTPUTS

- 6 analog inputs
- 2 digital inputs
- 2 switch inputs
- 4 internal 8A coil drivers
- 3 Auxilliary outputs
- Digital tach
- Shift lamp

### FEATURES

- Compact rugged design
- Environmentally sealed
- Automotive connector, 35 pin
- Dimensions: 4.5 x 3.8 x 1.7
- Weight: 0.9 lbs
- Power supply: 8 to 20 volts
- Operating temp: -40 to +85 deg C
- EMI protection: Exceeds 100V/m > 1GHz



Specifications subject to change without prior notice