

## **Basic Express BX-35**

# **BX-35 Document Overview**

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### **Hardware Reference**

- Getting started
- BasicX quick tour
- BX-35 system
- BX-35 technical specifications

### **Compiler Users's Guide**

- Downloader
- Editor and compiler
- Project dialog box
- Chip dialog box
- File types

### **Language Reference**

- General
- Subprograms
- Control structures
- Variables, constants and data types
- Expressions
- Unsigned types
- Strict vs. permissive syntax rules
- Option statement
- Attribute statement
- Restricted keywords
- Basic Express language FAQ
- Portability issues

### **Operating System Reference**

- Persistent variables in BasicX
- Block data classes
- BasicX networking
- Multitasking in BasicX
- Sharing data with semaphores
- Using queues to share data
- Potential system resource conflicts
- Special purpose registers

### **System Library**

- Math functions
- String functions
- Memory-related functions
- Queues
- Tasking
- Type conversions
- Real time clock
- Pin I/O
- Communications

### **Application Notes**

- [Measuring resistance using ADC](#)
- [Block data classes](#)
- [Reading buttons and switches](#)
- [Counting pulses with hardware interrupts](#)
- [Six day data logger](#)
- [Dual PWM in background](#)
- [Edge capture using Timer1](#)
- [Infrared communications](#)
- [Power Down using CPUSleep](#)
- [Servo control](#)
- [Programming Timer1 as stopwatch](#)