Commands and Directives

ADIN Read on-chip analogue to digital converter.

ASM-ENDASM Insert assembly language code section.

Draw a square on a graphic LCD.

BRANCH Computed GOTO (equiv. to ON..GOTO).
BRANCH out of page (long BRANCH).

BREAK Exit a FOR-NEXT, REPEAT-UNTIL, or WHILE-WEND loop

prematurely.

BSTART Send a **START** condition to the I2C bus. **BSTOP** Send a **STOP** condition to the I2C bus.

BRESTART Send a RESTART condition to the I2C bus.

BUSACK Send an ACKNOWLEDGE condition to the I2C bus.

BUSIN Read bytes from I2C device.

Write bytes to I2C device.

BUTTONDetect and debounce a key press.CALLCall assembly language subroutine.CDATADefine initial contents in memory.CIRCLEDraw a circle on a graphic LCD.

<u>CLEAR</u>

Place a variable or bit in a low state, or clear all RAM area.

<u>CLEARBIT</u>

Clear a bit of a port or variable, using a variable index.

CLS Clear the LCD.

CONFIG Set or Reset programming fuse configurations.

COUNTERCount number of pulses on a pin.CREADRead word from code memory.CURSORPosition the cursor on the LCD.CWRITEWrite word to code memory.DATADefine initial contents in memory.

DEC Decrement a variable.

DECLARE Adjust library routine parameters.

DELAYMS
DELAYUS
Delay (1mSec resolution).
Delay (1uSec resolution).

DEVICE Choose the type of PICmicro to compile with.

Return the value of a decimal digit.

DIM Create a variable.

DISABLE DISABLE software interrupts that were previously ENABLED.

DTMFOUT Produce a DTMF Touch Tone note.

EDATA Define initial contents of on-chip EEPROM.

ENABLE ENABLE software interrupts that were previously DISABLED.

END Stop execution.

EREAD Read a value from on-chip EEPROM.
Write a value to on-chip EEPROM.
FOR...TO...NEXT...STEP Repeatedly execute statements.

FREQUUT GETBITGenerate one or two tones, of differing or the same frequencies.

Examine a bit of a port or variable, using a variable index.

GOSUB Call BASIC subroutine at specified label.
Continue execution at specified label.

HBSTART
HBSTOP
Send a START condition to the I2C bus using the MSSP module.
Send a STOP condition to the I2C bus using the MSSP module.
Send a RESTART condition to the I2C bus using the MSSP module.

HBUSACK Send an ACKNOWLEDGE condition to the I2C bus using the

MSSP module.

HBUSIN Read from an I2C device using the MSSP module.

HBUSOUT Write to an I2C device using the MSSP module.

HIGH Make pin or port high.

HPWM Generate a PWM signal using the CCP module.

HRSIN Receive data from the serial port on devices that contain a USART.

HRSOUT
HSERIN
Transmit data from the serial port on devices that contain a USART.
Receive data from the serial port on devices that contain a USART.
Transmit data from the serial port on devices that contain a USART.
Transmit data from the serial port on devices that contain a USART.

HRSIN2Same as HRSIN but using a 2nd USART if available.HRSOUT2Same as HRSOUT but using a 2nd USART if available.HSERIN2Same as HSERIN but using a 2nd USART if available.

HSEROUT2 Same as **HSEROUT** but using a 2nd USART if available.

IF..THEN..ELSEIF..ELSE..ENDIF Conditionally execute statements.

INC Increment a variable.

INCLUDE Load a BASIC file into the source code.

INKEY Scan a keypad.

INPUT Make pin an input.

[LET]Assign result of an expression to a variable.LCDREADRead a single byte from a Graphic LCD.

LCDWRITE Write bytes to a Graphic LCD.

LDATA Place information into code memory. For access by LREAD.

LINE Draw a line in any direction on a graphic LCD.

LINETO Draw a straight line in any direction on a graphic LCD, starting from

the previous LINE command's end position.

LOADBIT Set or Clear a bit of a port or variable, using a variable index.

LOOKDOWN Search constant table for value.

LOOKDOWNL Search constant / variable table for value.

LOOKUP Fetch constant value from table.

LOOKUPL Fetch constant / variable value from table.

LOW Make pin or port low.

LREAD Read a value from an LDATA table and place into Variable.

ON INTERRUPT Execute a BASIC or ASSEMBLER subroutine using a SOFTWARE

interrupt.

ON INTERRUPT ON LOW INTERRUPTExecute an ASSEMBLER subroutine on a HARWARE interrupt.

Execute an ASSEMBLER subroutine when a LOW PRIORITY

HARDWARE interrupt occurs on a <u>16-bit</u> core device. **OUTPUT**Make pin an output.

OREAD Receive data from a device using the Dallas 1-wire protocol.

Send data to a device using the Dallas 1-wire protocol.

ORG Set Program Origin.
PEEK Read byte from register.

PIXEL Read a single pixel from a Graphic LCD.

PLOT Set a single pixel on a Graphic LCD.

POKE Write byte to register.

POT Read potentiometer on specified pin.

PRINT Display characters on LCD.
PULSIN Measure pulse width on a pin.
PULSOUT Generate pulse to a pin.

PWM Output pulse width modulated pulse train to pin.

RCIN
READ
REM
Generate a pseudo-random number.
Measure pulse width on a pin.
Read a value from memory.
Add a remark to the source code.

REPEAT...UNTIL Execute a block of instructions until a condition is true.

RESTOREAdjust the position of data to READ.RESUMERe-enable software interrupts and return.RETURNContinue at statement following last GOSUB.RSINAsynchronous serial input from fixed pin and baud.RSOUTAsynchronous serial output to fixed pin and baud.

SEED Seed the random number generator, in order to obtain a more

random result.

SELECT..CASE..ENDSELECT Conditionally run blocks of code.

SERIN Receive asynchronous serial data (i.e. RS232 data).

SEROUT Transmit asynchronous serial data (i.e. RS232 data).

SERVO Control a servo motor.

SET OSCCAL Place a variable or bit in a high state. Calibrate the on-chip oscillator.

SETBIT Set a bit of a port or variable, using a variable index.

SHIN Synchronous serial input.
SHOUT Synchronous serial output.

SLEEP Power down processor for a period of time.

SNOOZE Power down processor for short period of time.

SOUND Generate tone or white-noise on specified pin.

SOUND2 Generate 2 tones from 2 separate pins.

Stop program execution.

Stop array with values.

STRN Create a NULL terminated Byte array.

STR\$ Convert the contents of a variable to a NULL terminated String.

SWAP Exchange the values of two variables.

SYMBOL Create an alias to a constant, port, pin, or register.

TOGGLE Reverse the state of a port's bit.

UNPLOT Clear a single pixel on a Graphic LCD.

USBINIT Initialise the USB interrupt on devices that contain a USB module.

Receive data via a USB endpoint on devices that contain a USB

module.

<u>USBOUT</u> Transmit data via a USB endpoint on devices that contain a USB

module.

VAL Convert a NULL terminated String to an integer value.

VARPTR Locate the address of a variable.

WHILE...WEND Execute statements while condition is true.
Receive data using the X10 protocol.
Transmit data using the X10 protocol.