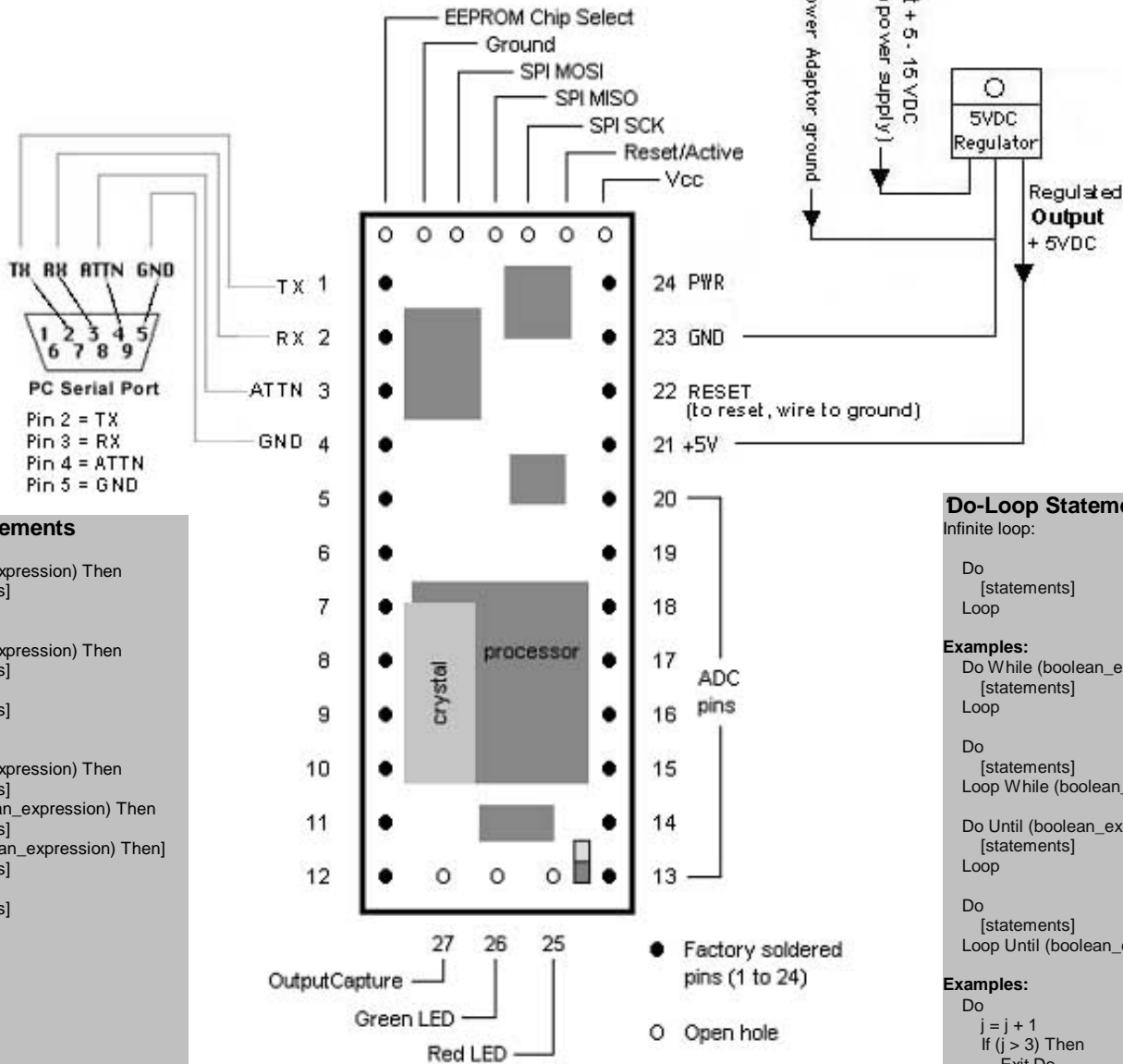


BX24



If-Then statements

```

If (boolean_expression) Then
  [statements]
End If

If (boolean_expression) Then
  [statements]
Else
  [statements]
End If

If (boolean_expression) Then
  [statements]
Elseif (boolean_expression) Then
  [statements]
[Elseif (boolean_expression) Then]
  [statements]
[Else]
  [statements]
End If
  
```

Examples:

```

If (i = 3) Then
  j = 0
End If

If (i = 1) Then
  j = 3
Elseif (i = 2) Then
  j = 4
Else
  j = 5
End If
  
```

Do-Loop Statement

```

Infinite loop:

Do
  [statements]
Loop

Examples:

Do While (boolean_expression)
  [statements]
Loop

Do
  [statements]
Loop While (boolean_expression)

Do Until (boolean_expression)
  [statements]
Loop

Do
  [statements]
Loop Until (boolean_expression)
  
```

Examples:

```

Do
  j = j + 1
  If (j > 3) Then
    Exit Do
  End If
Loop

Do While (j < 10)
  j = j + 1
Loop

Do
  j = j + 1
Loop Until (j <= 10)
  
```

'For-Next Statement

Examples:

```

DIM I as byte

For i = 1 To 10
  j = j + 1
Next

For i = 10 To 1 Step -1
  j = j - 1
  If (j < 3) Then
    Exit For
  End If
Next
  
```

'Hello world program (prints Hello World!)

```

Sub Main()
  debug.print "Hello world!"
end Sub
  
```

'This program gets the state of pin13 and prints it in the debug window.

```

Sub Main()
  Do
    debug.print "pin 5:" ; cstr(getPin(5))
  Loop
end Sub
  
```

'Test program to switch on and off pins

```

Sub main()
  do
    if getPin(6) = 1 then 'if pin 6 is high
      call putPin(13,1) 'make pin 13 high
      call putPin(14,0) 'make pin 14 low
    else 'otherwise,
      call putPin(13,0) 'make pin 13 low
      call putPin(14,1) 'make pin 14 high
    end if
  loop
end sub
  
```