

Subject: Re: PCIe-WDG-CSMA Conversions

From: John Hentges <jhentges@accessio.com>

Date: 4/22/19, 5:00 PM

To: Dare Winters <dwinters@accessio.com>, Jay Dolan <jay.dolan@accessio.com>

FYI: Touching Test Point 2 (TP2, near the top middle edge of the card) will reset the Cypress FX2LP chip "live", equivalent to hot-plugging the USB cable. I found it very convenient during my firmware development, but it *shouldn't* be useful anymore.....

John Hentges

ACCES I/O Products, Inc.

Director of Software Engineering

John.Hentges@accessio.com

(858) 467-5582

On 4/22/2019 4:35 PM, Dare Winters wrote:

Here:

<http://www.accessio.com/files/AIOWDG%20Source%2020190422.zip>

http://www.accessio.com/files/USB_8080.hex.zip

are the .DLL source and the .HEX firmware.

--

Daria "Dare" Winters

ACCES I/O Products, Inc.

Senior Software Engineer, Kernel

DWinters@accessio.com

(858) 550-7320 x3016

ACCES I/O Logo

[10623 Roselle Street San Diego CA 92121-1506](#)

—
On 22-Apr-2019 16:29, Dare Winters wrote:

The PCIe-WDG-CSMA conversion functions are simply linear:

```
function CelsiusFromSi7013Temp(Counts: Word): Double;  
begin  
    Result := 175.72/65536 * Counts - 46.85;  
end;  
  
function RHFromSi7013Humidity(Counts: Word): Double;
```

```
begin  
    Result := 125/65536 * Counts - 6;  
end;
```

--

Daria "Dare" Winters
[ACCES I/O Products, Inc.](#)
Senior Software Engineer, Kernel
DWinters@accessio.com
(858) 550-7320 x3016

—

The logo for ACCES I/O, featuring a small icon of a document with a checkmark and the text "ACCES I/O Logo" in blue.

[10623 Roselle Street San Diego CA 92121-1506](#)