

MICRO PLC DEMONSTRATION PLATFORM - VERSION 2

Brooke Wolff
August 30, 2014

FADE IN:

INT. LAB

Jeff stands in front of a lab table that contains a Maxim uPLC Technology Demonstration platform and various uPLC products. A whiteboard hangs on the wall behind the table.

CU of Jeff.

JEFF

It's a revolutionary time. Industry 4.0 is literally transforming the manufacturing industry.

Jeff walks around the table and stands in front of the whiteboard.

JEFF

For equipment designers, this transformation is more than theoretical. It catalyzes some exciting challenges surrounding one all-encompassing question: how do you put more functions in less space?

Jeff turns towards the whiteboard, where the words "Analog Integration" are written.

JEFF

The answer is analog integration. And here's how we incorporated that concept into creating the optimal solution.

He picks up a uPLC module.

JEFF

We began by taking one of the smallest micro PLC modules we could find and asked ourselves: "how can we make this even smaller?"

He puts it on the table next to a ruler to demonstrate its small size.

JEFF

That's a tricky question. Because the demand to do a lot in a little bit of space already has made a profound impact on design. For example, if you look at a typical digital-input card...

He holds up a digital-input card.

JEFF

You'll notice that the optocoupler and passive components on each input consume a lot of space.

He points to a diagram that shows a rendering of Maxim's uPLC with its 8-channel serializers, placed under the heading: **"1/3 the Size -- 1/2 the Cost."**

JEFF

So, to achieve the goal, we used our 8-channel serializers and were able to eliminate many of these components. The result? A solution that's just one-third the size and half the cost.

He points to the I/O cards on the table.

JEFF

Likewise, in order to save space and improve performance, we used an integrated solution instead of discrete ones on the power subsystem and other I/O cards.

He points to a chart, with numbers under the heading: **"Maxim Micro PLC Demonstration Platform."**

JEFF

Check out the amazing results that come with analog integration: a 10 times smaller PLC platform; a whopping 50% in system power savings; and a 70% faster throughput on the digital I/O.

Jeff gestures toward Maxim's uPLC Demonstration Platform. He smiles with satisfaction.

JEFF

Analog integration puts the power
of Industry 4.0 in the palm of your
hand!

SUPER: "**Maximintegrated.com/PLCinfo**"

JEFF (V.O.)

To learn more about Maxim's Micro
PLC products, visit
maximintegrated.com/PLCinfo.