

Connections



Industrial Computers – Did you know?

Today, most items somehow at least connect to, if not controlled by a computer. Computers in industry pose many challenges. They are usually office equipment placed inside an enclosed housing. They can get infested

with vermin as well as dust. This often causes overheating and premature failure. This is because they are being used in a manner they were not intended. Even under the best conditions, PC's have a hard time living on the industrial floor. This is the domain where industrial HMIs step in to fill the bill. But sometimes they can fall short in their computing power. Or they require a new program to configure them. I.T. developers are not always familiar with them, and they cannot be

locked down on the network in the same way that regular PCs can be. This poses many problems. Luckily, APLEX computer has accommodated this need. They have low power, fan less units that are IP69K compliant and can be washed vigorously. So vigorously that you can use a hose. Connections are made to the PC via industrial and waterproof M12 Connections. They are made of stainless steel and are food grade. These units are made to go where no industrial PC has gone before!

Another location that PCs are required in but are hard to adapt to is a vehicle. This task is different than the one already mentioned, but has its own issues such as bumps, vibration, extreme temperatures and operator ease of use. Again, developers are more familiar with standard PC hardware than



“Computing is not about computers anymore. It is about living.”

- Nicholas Negroponte

As New England Drives & Controls constantly strives to become a better asset to our customers, our whitepaper series will feature new technologies or helpful insights that may be pertinent to the reader. It is our sincere hope that this information will be beneficial in both relating, and applying content to your industrial needs.

We hope you find this whitepaper series an enjoyable and informative read.

We always welcome your questions and comments.

In-Vehicle Management Application

APC-30X2/ 30X3 Series Rugged Industrial In-Vehicle Panel PC

This series enables users to perfectly monitor and keep each stage operating that minimize the error and run the assignments efficiently.

- ▶ 7/ 8" TFT-LCD Support High Brightness Solution
- ▶ Intel Atom E3845/ Freescale i.MX6 Dual Lite 1.0GHz Processor
- ▶ Total IP66 Rating with M12 Waterproof Connectors
- ▶ Front-Function Keypad
- ▶ DC 6-36V Wide Range Power Input
- ▶ ACC Power Protection Control (Option)

with an HMI. In this application, the Industrial PC stands proudly alone.

Whatever operating system you want to use, whatever programming environment or IDE, these machines can adapt easily and not require any thing further than what a standard I.T. developer would want and need.

Sometimes the task is easy and does not require special environmental requirements. Of course, APLEX has this covered as well. These machines can handle your simplest of requirements all the way up to, and including machine vision processing.



APLEX provides everything in industrial PCs. Need just the main board to be directly included in your project? No problem. Need a mount or stand? We've got that covered.

Contact your friendly New England Drives & Controls representative. We can help you with the perfect IPC for your needs.

-Peter Lavoie (VP Engineering)

