

FRONT PANEL EXPRESS



[Explaining Electromagnetic Compatibility as it Relates to Enclosures](#)

Electromagnetic compatibility, or EMC, pertains to the unintentional generation or reception of electromagnetic energy that may lead to electromagnetic interference or physical damage to a component or piece of equipment. By striving for EMC in electrical component design, electronics designers can ensure long-term stability and lifespan of multiple electrical components operating within a given space.

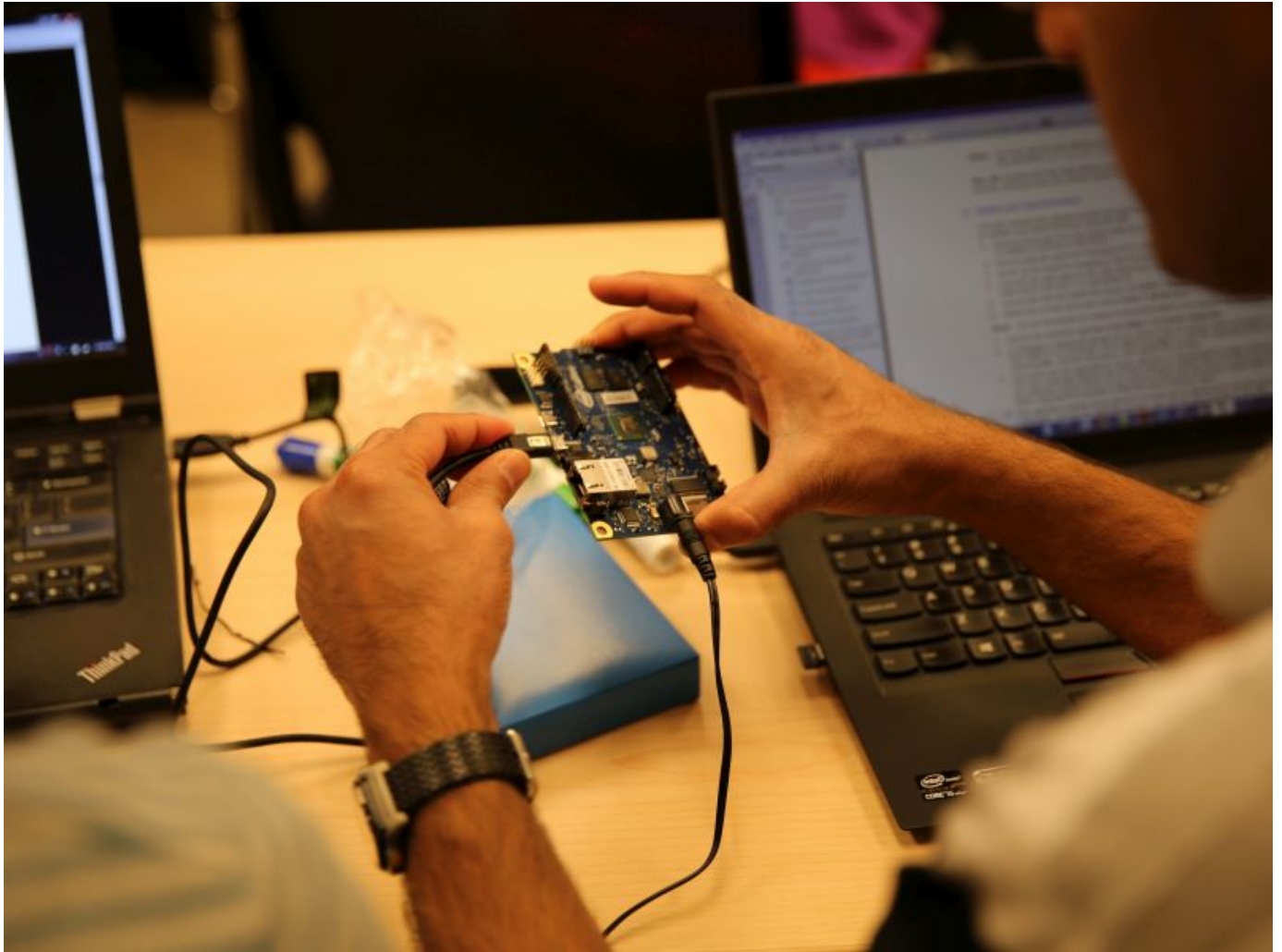
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[4 Thermal Hazards in Control Panels and How to Prevent Them](#)

Despite the recommended (and often required) quality control checks that are implemented before an enclosed industrial or electrical control panel is put to use, the onus remains on the control panel's designer to create a functional and safe control panel for long-term use.

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[3 New Year's Resolutions for Inventors in 2016](#)

It seems as though everyone has a half dozen amazing ideas or inventions up their sleeves, but the difference between dreamers and inventors are the ones who actually work to make their creations a reality. If you've got a product idea on the cutting edge and want to take the next step, keep these New Year's resolutions in mind to make it happen in 2016:

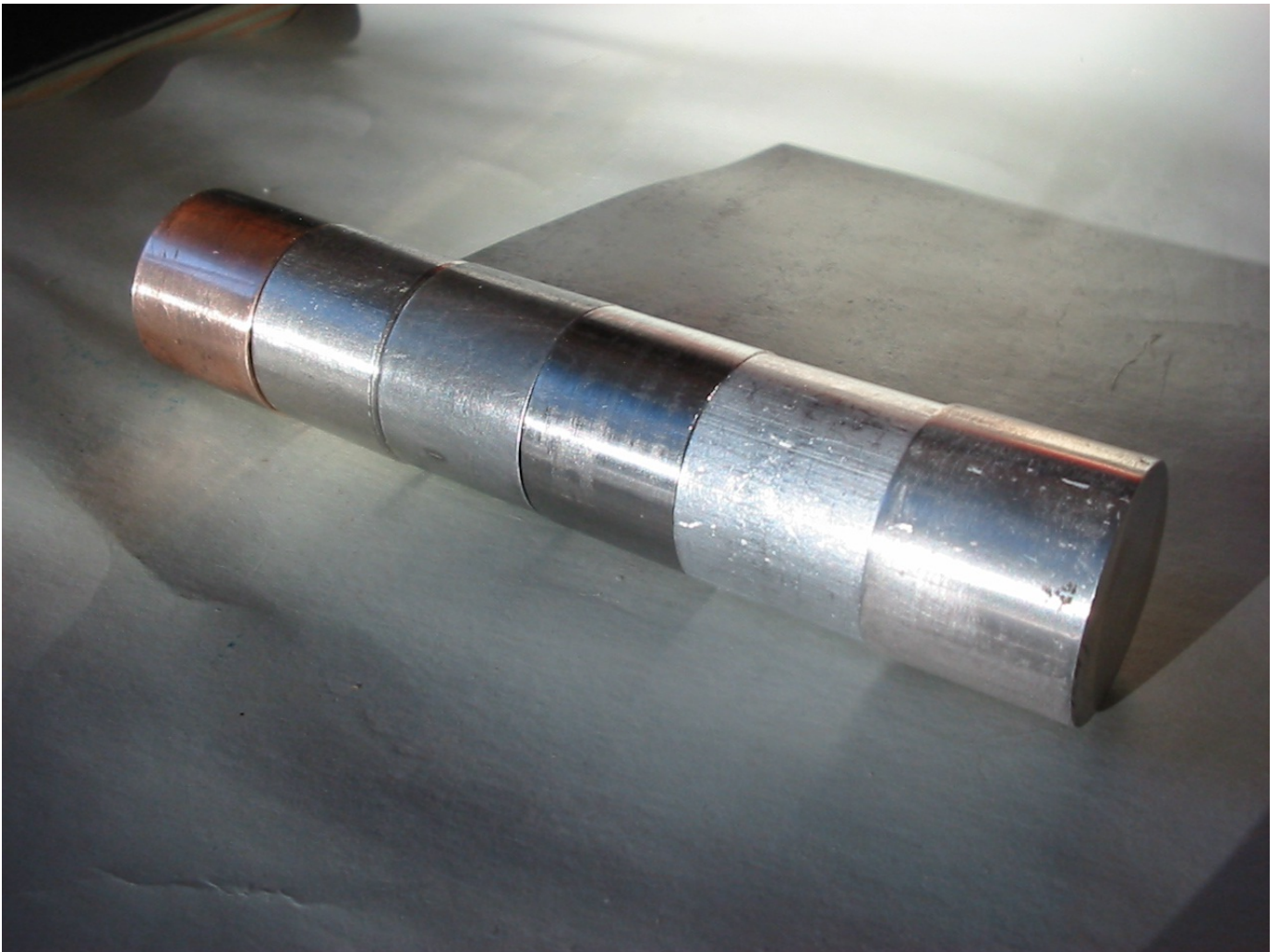
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[4 Great Gift Ideas for the Inventor in Your Life](#)

At Front Panel Express, we're used to interacting with creative types, hobbyists, and inventors alike and we know how particular they can be. It's not their fault, after all - their perfectionism and attention to detail is what makes them passionate, but that can lead to frustrations when it comes to holiday shopping. Thankfully, there are a lot of great holiday gift ideas for inventors that you may not have considered. If you've waited until the last minute to do your holiday shopping, consider these gift ideas for the inventor, tinkerer, or hobbyist in your life.

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[Steel vs. Aluminum: Which is Best for Your Project?](#)

Two of the most common materials used in machine production, part assembly, and metal spinning are steel and aluminum. While different types of each metal are better utilized depending on your application, each material holds its own defined set of characteristics to keep in mind during the design process.

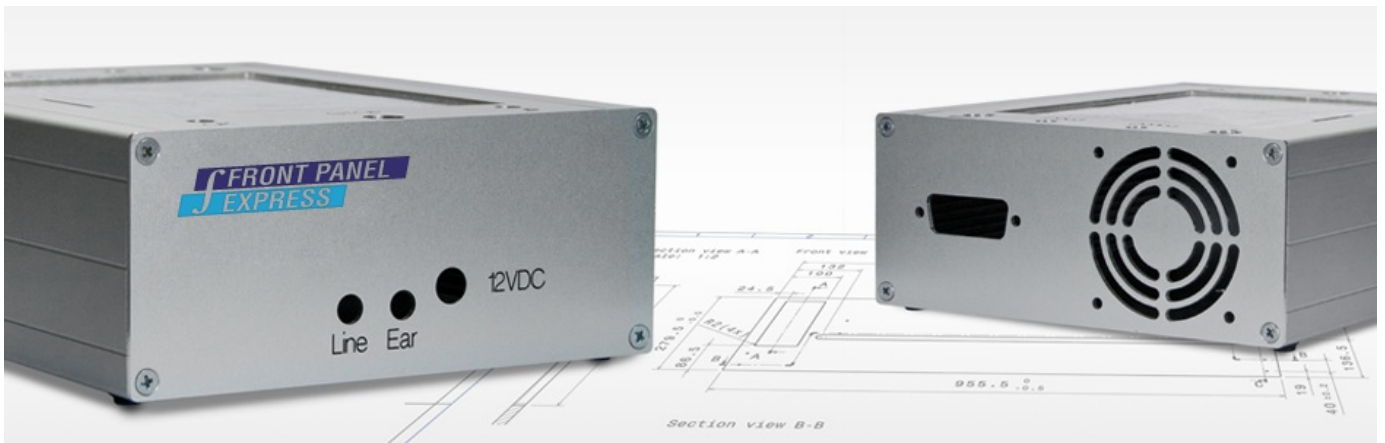
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Front Panel Express is ringing in the holiday spirit again with some amazing deals on our revolutionary custom enclosure and front panel services! Every order placed between November 27-30, 2015 automatically qualifies for free shipping and a few awesome giveaways. Check it out!

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Reducing Time and Cost by Modifying Enclosures to Your Custom Design

There's nothing more frustrating than designing a part, ordering it, and discovering the milling is incorrect or out of place. Enclosures typically require at least one cutout for power cables and additional cuts for holes, tappings, gaskets, assembly, and finishing, but with design processes having to accommodate for tight production timelines and prototyping stages, design engineers need to move quickly to accommodate for shortened design cycles while reducing costs.

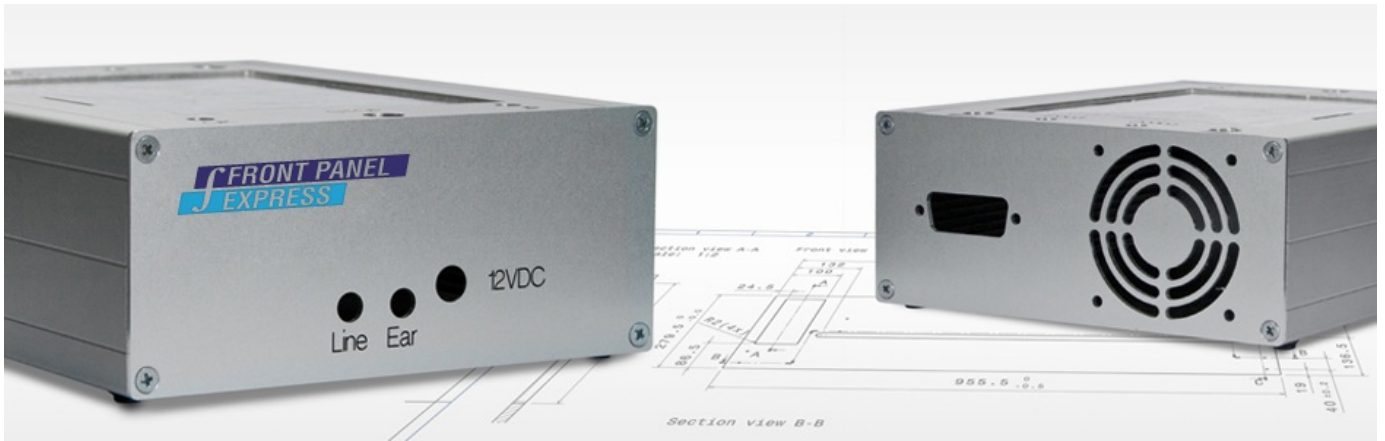
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How to Build a Cheap Custom PC Case

PC gamers are a selective bunch - and that's a good thing. When you know exactly what you want from your machine and can't find the resources readily available to make that happen, a custom PC case may be the answer.

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Getting Started Designing Your First Enclosure

Getting an idea for a product or invention is a wonderful first step - but making it a reality is daunting by comparison. Thankfully, there's never been a better time to be an independent or hobbyist inventor. With a plethora of free and low-cost tools and software at your disposal, just about anybody can make that lingering concept a reality.

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3 Reasons Why Front Panel Designer is Essential for Students

Companies, university courses, and hobbyists use and love [Front Panel Designer](#) for many reasons, but in stark contrast to costly and complex CAD programs, Front Panel Designer is one of the best tools a fledgling mechanical engineer can utilize in order to further their knowledge and bring their creations come to life. Here's why:

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