



SAFETY-CRITICAL NETWORKING

FOR LOW POWER
FOR HARSH ENVIRONMENTS
FOR ANY PLATFORM

If you need a networking solution for safety-critical applications, COTS devices could put stress on your system and leave you open to hardware vulnerabilities.

DornerWorks can help your business develop a customized networking solution for land, sea, air, or space, made portable with RISC-V architecture.

FRUSTRATION-FREE SAFETY-CRITICAL NETWORKING



Complex technology requirements shouldn't hold you back from innovation.

Whether for a nuclear submarine fathoms deep, or a space station miles above, DornerWorks multi-layer Ethernet switch keeps safety-critical devices connected in nearly any environment imaginable.

Schedule a consultation with DornerWorks today so you can launch your products with confidence, and get back to growing your business.



SAFETY-CRITICAL CERT. ARTIFACTS

- NASA standards
- ISO 9001 and AS9100
- ISO 13485



MINIMAL FOOTPRINT FOR LIMITED RESOURCES

- Just 10% of the wattage of most COTS options
- IP routing handled in hardware logic
- RISC-V softcore is portable to any platform



MULTI-LAYER ENHANCED CAPABILITY

- Limited IP routing
- VLAN tagging

DornerWorks.com | +1.616.245.8369



DornerWorks is a professional, flexible,

**AND AN *ESSENTIAL* PART
OF OUR TEAM "**



RAD-HARDENED NETWORKING



Not satisfied with the limitations of status quo processors, one aerospace company decided on a radiation-hardened ARM platform for its network switch, which would improve the quality of life for people in space. That decision forced the company to make another tough choice: either develop the complex IP on its own or scrubbing the product launch.

DornerWorks FPGA team guided the company to:

- Microchip's RTG4 radiation tolerant FPGAs rather than a strict software approach.
- Custom IP for the FPGA, meeting the IEEE 1588 Precision Time Protocol standard for networking.
- Multiple Microchip FPGAs with a RISC-V softcore processor, using a modified version of DornerWorks own MAC core.

Being compatible with the end-users' commercial devices, the product spans markets and cements the company's hold on the aerospace market. Moreover, flexible data rights for the finished product give the company full ownership of its own innovation.

GET STARTED TODAY



Connect with us now. Together we will map out a plan that meets your product goals and helps you lead the market.

**MICROCHIP
QUALIFIED**



SCHEDULE A CONSULTATION

DornerWorks.com | +1.616.245.8369