

# inxware For Technology Integration



Embedded systems pose some of the greatest technical challenges to engineers and product managers; increasing demand for complex functionality, evaluating new technologies and analysing operating environments. After selecting a Software BOM, project teams then need to deal with the realities of integrating it:

- Identifying and assembling dependencies
- Establishing interoperability (e.g. threading, callbacks, understanding APIs);
- Implementing API glue code and/or abstractions.
- Implementing application business logic

These challenges are costly and dependent on specialist skills across a wide range of professions. This stifles important development journeys and thwarts product evolution.

Painful development journeys don't only hurt design wins for tech vendors, but also slow down customer product development velocity and subsequent revenue streams from shipping successful products.

Hardware + OS + SDK + Connectivity + Cybersecurity + IO + ... = \$\$ x \$\$ x \$\$ x \$\$ x ...

inxware untangles this journey, bringing forward integration ahead of application development, where attribution of concerns to the right people at the right time is optimised. inxware offers broad benefits to all in the supply chain and the operational teams managing products and services. Refactoring the software supply chain still allows developers to make low-level platform changes at any time during development and maintenance or concurrent engineering, giving access without burden to the full stack.

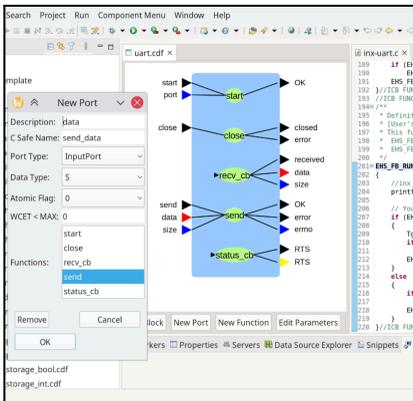
The inxware approach ensures valuable accumulated QA effort at each stage of development is retained across different customers, products and deployments.

inxware's **open-source** runtime environment encapsulates any software or hardware technology with a digital interface. All types of synchronous, asynchronous, initialisation and teardown requirements are distilled into the simplest possible self-describing API format, leaving no

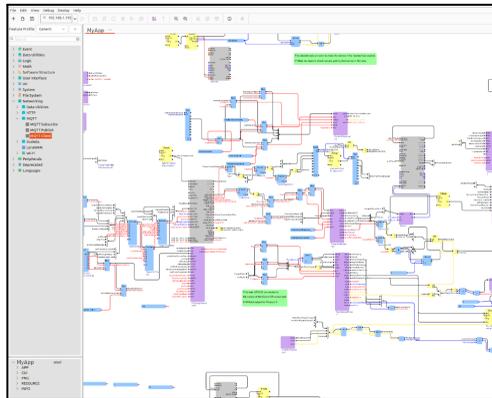
guesswork and ensuring code-free interoperability with 100s of other similarly decoupled components. inxware integrates any technology, built for any platform with C/C++ or with a binding API.

inxware is a two-part product: (1) the Inxware-eRT runtime, an open source platform onto which components are pre-integrated, combined with (2) the Inxware-lucid IDE, a no-code environment that uses the language of systems engineering to design and implement products.

Once the initial integration is done and your technology can co-exist with other technologies, your work as a tech vendor is done! You may still support your customers using Lucid's powerful IDE and device debugging tools and use them to promote and demonstrate your technologies to prospects **FREE OF CHARGE**.



**inxware-eRT Eclipse plugin:**  
Create and edit function blocks.



**inxware-Lucid IDE:**  
Build demo apps for your customers.

**Integrating open source ecosystems to supercharge your Design-Wins.**



inxware runs on anything from \$1 micro-controllers to 64-bit compute clusters. The lightweight-zero-dependency event handling core can run on FreeRTOS, Zephyr, Linux, Android, Windows, or any platform with C/C++ ABIs. The inxware Github page includes all the components' source and their hardware abstraction layers for different hardware, operating systems and middleware. You can build inxware on PCs, build server-side, or directly use GitHub CI.

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