



PET

One for All

One code for all the Portwell boards and systems
One package for all the Windows and Linux OS

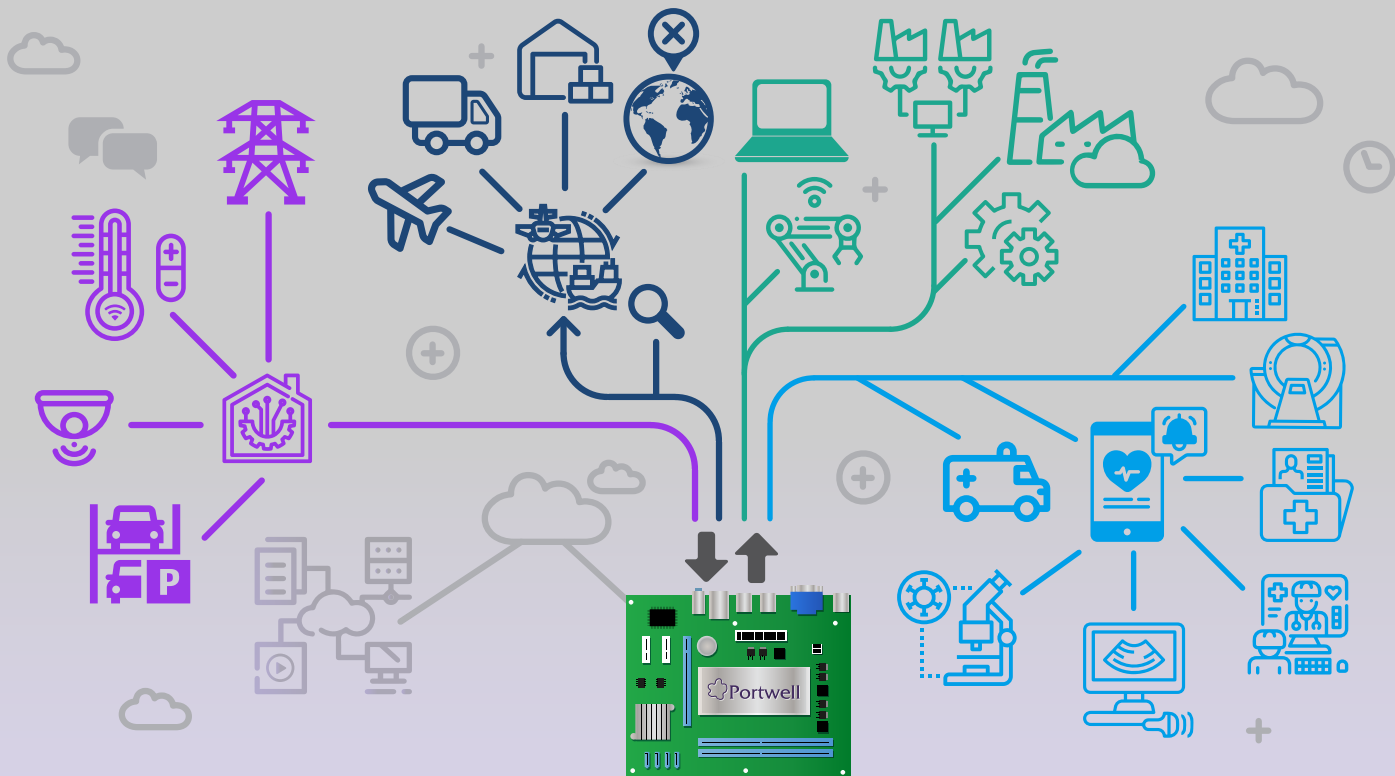
Introduction

Portwell Engineering Toolkits (PET), your comprehensive IoT solution engineered to meet the diverse demands of developers. Embracing the core principle of "One For All," PET presents a unified platform comprising APIs and applications compatible across various operating systems, hardware boards, and solution requirements. Whether navigating Windows or Linux platforms, PET streamlines your development journey, empowering you to effortlessly craft cutting-edge IoT solutions.

Notably, PET stands as a robust supporter of the PICMG's eAPI standard, ensuring seamless integration with industry-leading protocols. From facilitating system monitoring to precise device control, PET simplifies development processes, offering essential functionalities vital for IoT projects. Embrace the future of IoT connectivity with PET, where innovation knows no bounds.

PET Application Programming Interface

Provides a rich set of APIs for customers to quickly integrate and utilize in their IoT projects. Ensures compatibility across different operating systems and hardware platforms, enabling developers to seamlessly utilize PET for development.



PET Utility Application

Showcases the functionality and usage of PET APIs, allowing developers to intuitively understand API calls and their effects.

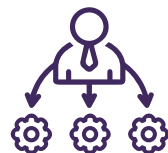
Offers features such as real-time monitoring and device control, facilitating easy testing and debugging of IoT solutions.

Primary Advantages



Unified Solution

PET's "One For All" approach simplifies development efforts by providing a single, cohesive solution compatible across diverse environments, reducing complexity and improving efficiency.



Enhanced Flexibility

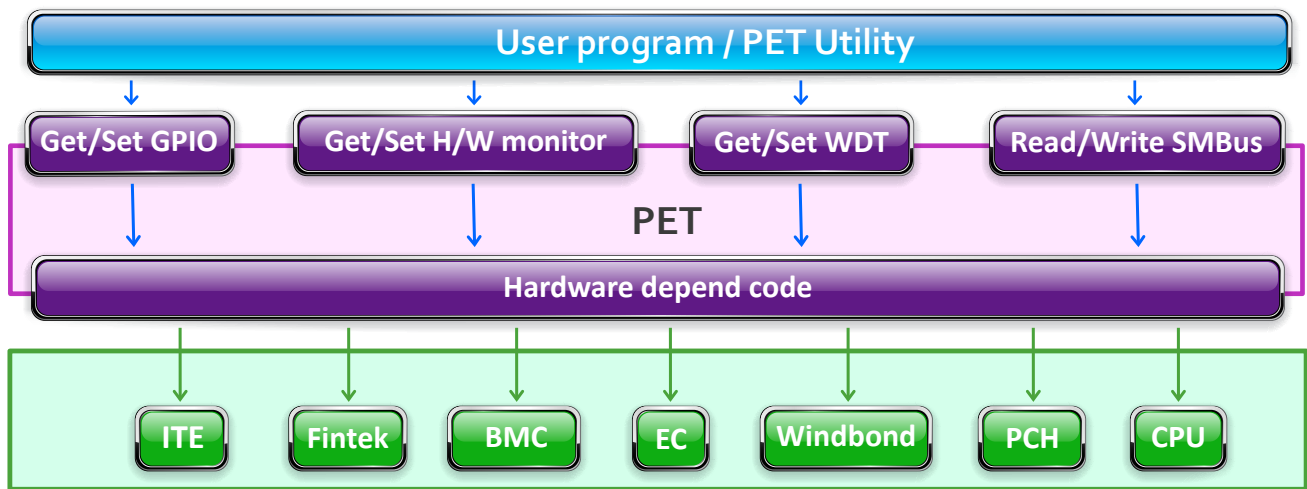
Developers can leverage PET's versatile APIs and applications to address a variety of IoT project requirements, adapting seamlessly to evolving needs and technologies.



Streamlined Development

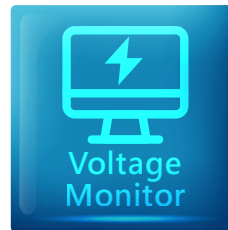
By offering essential functionalities out-of-the-box, PET accelerates development cycles, enabling rapid prototyping and deployment of IoT solutions.

PET Block Diagram



System Information

Access detailed information about your system for enhanced monitoring and management.



Voltage Monitor

Monitor voltage levels to ensure optimal performance and reliability.



Temperature Monitor

Keep track of temperature variations for system health and safety.



SmartFan

Control fan speed intelligently to maintain optimal operating conditions.



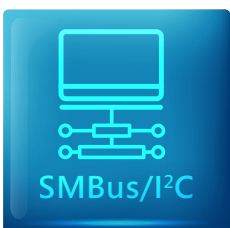
Watchdog Timer

Ensure key applications integrity by automatically resetting or initiating corrective actions in response to anomalies or failures.



GPIO

Gain precise control over General Purpose Input/Output pins for versatile applications.



SMBus/I²C

Communicate with SMBus and I²C devices seamlessly for integrated IoT solutions.

PET for Diverse IoT Solutions



Manufacturing and Industrial Automation:

Empowering users to closely monitor and precisely control industrial equipment and production processes, PET enables predictive maintenance, helping to identify potential issues before they escalate. Additionally, PET seamlessly integrates with a wide range of industrial devices and systems, facilitating the development of comprehensive automation solutions tailored to the unique needs of manufacturing environments.



Building Automation and Smart Infrastructure:

PET enables comprehensive monitoring and precise control of building systems, ensuring reliable and efficient operations. PET's advanced features empower users to implement intelligent energy management strategies, optimizing resource consumption based on real-time data.



Transportation and Logistics:

PET's versatile functionality makes it a compelling choice for transportation and logistics applications. Its robust monitoring and data collection capabilities empower users to track and manage a wide range of mobile assets, from vehicles to cargo. Moreover, PET enables remote diagnostics and maintenance, providing visibility into vehicle systems and allowing for targeted interventions.



Agriculture and Environmental Monitoring:

PET can be used to monitor and control environmental conditions such as temperature, humidity, and soil moisture in greenhouses, farms, or remote locations. It can also implement automated irrigation systems by integrating sensors and device control functions. Additionally, PET can collect and analyze data from various environmental sensors using its data acquisition capabilities.



Healthcare and Medical Devices:

With advanced monitoring and control capabilities, PET enables the effective supervision of critical medical equipment and systems, ensuring safe and optimal operation. Importantly, PET facilitates remote patient monitoring, seamlessly integrating with a variety of biosensors and medical devices to support remote care delivery. Furthermore, PET safeguards data integrity and the overall reliability of connected medical solutions.

About Portwell

Portwell, Inc., founded in 1993, has focused herself towards a high-technology scope that brings company value through the state-of-the-art. For the past years, continuous leading product development and revenue growth have made Portwell a major Mission-Critical Application Platform Provider in the world. The in-house design of industrial computers and application platforms by Portwell has also been targetted to meet our customer needs for flexibility. Portwell, Inc., an IoT Solutions Titanium Partner of the Intel® Partner Alliance, a community of communications and embedded developers and solution providers, designs and manufactures Communication Appliances along with a full range of Industrial Platform Service (Computer on Module, Embedded Computing, Industrial Computer), Communication Appliance Service (Software Defined Wide Area Network, ANS series, AnnA ANS Network Associate), Vertical Market Service (Advanced Network Solutions, Gaming, Medical, industrial Automation, Smart Transportation, Energy, Smart Manufacturing, Internet of Things(IoT), AI Solutions, Mobility & Barcoding Solutions, EMS/DMS), Panel Device Service (Panel PC, LEAD Series). With streamline access to the latest Intel technology, we paved the way with the broadest array of building blocks, delivering cutting-edge solutions to meet and even exceed the demanding needs of the ever-changing telecommunication, medical electronics, industrial automation, defense and life automation markets. Committed to supplying customers with a one-stop shopping approach of full product selection, competence and sophisticated customer support, Portwell helps all our customers pave the royal road to success and stay ahead of competition.



intel
partner Gold

Portwell, Inc., an IoT Solutions Titanium Partner of the Intel Partner Alliance, designs and manufactures a full range of IPC products (SBC, backplane, redundant power supply, rack mount & node chassis), embedded architecture solutions, DVR system platforms and communications appliances. We provide complete R&D and project management services to decrease customers' time to market, and reduce project risk and cost. Portwell is also an ISO 13485, ISO 9001 and ISO 14001 certified company that deploys quality assurance through product design, verification and manufacturing cycles.



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