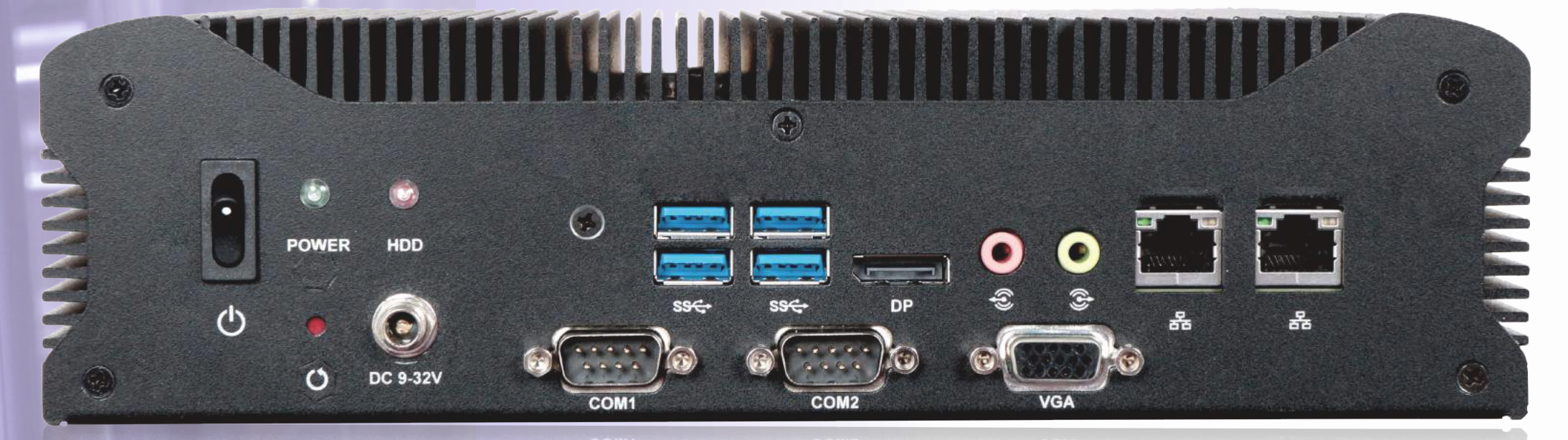# RS4U-B641-P&E

Renewable energy, Renewable system.
Today's resource for a brighter tomorrow!

Compact System for Industrial Automation & Control Targeting Power & Energy

Key Features

- New Apollo Lake platform
- 4K codec encode & decode ability
- 9-32V wide range DC in
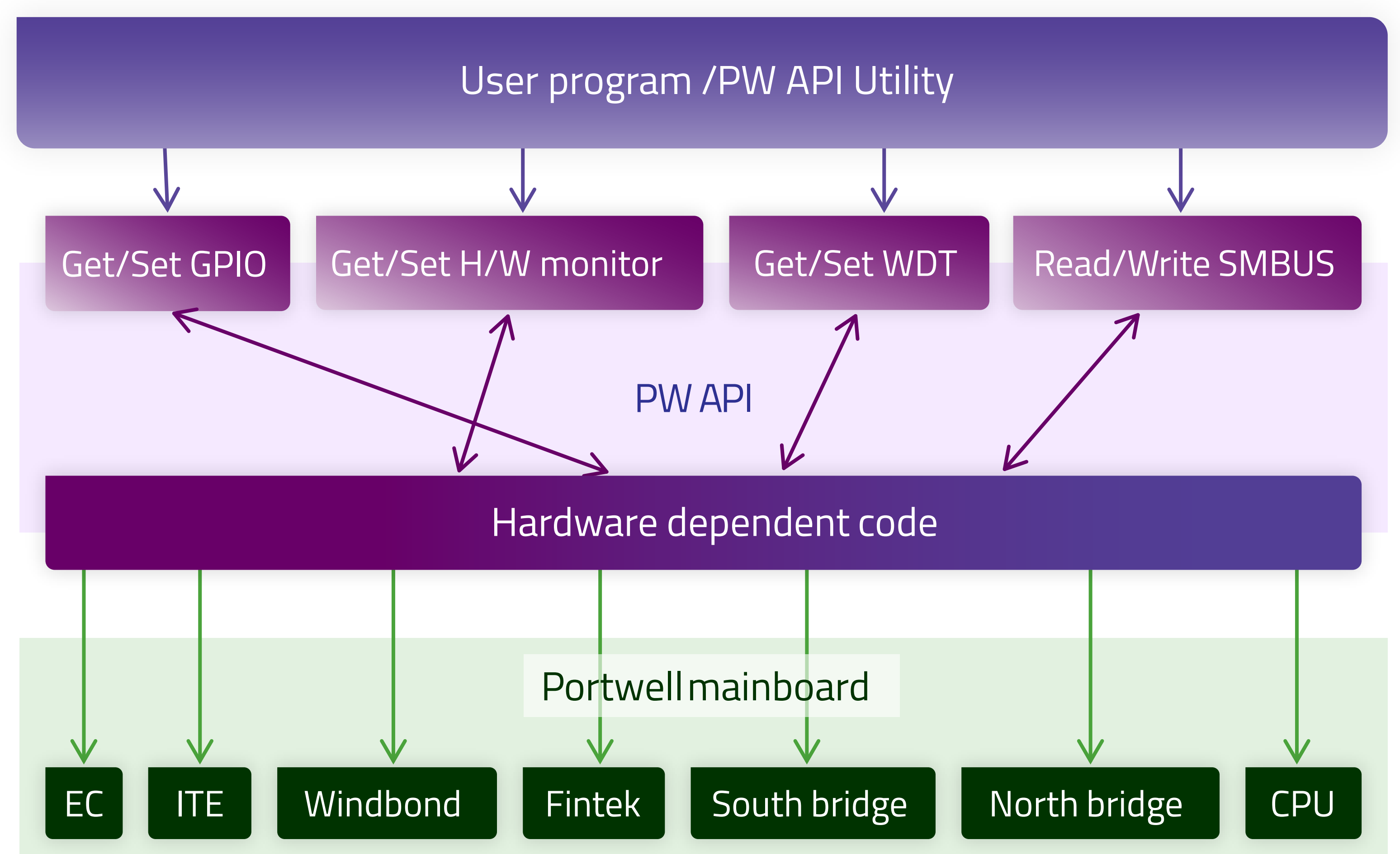- eAPI function control
- CFEX support with SPI ROM inside

Key Benefits

- Low power and cost
- Support 4Kx2K high resolution
- 50G static shock and 5Grms dynamic vibration
- Storage and security functions on CFEX
- Wide DC in support for different usage
- Easy H/W control by eAPI

Specification

Chassis	WEBS-3560B
PSU	9V~32V DC-IN
Storage	CFEX 2GB w/SPI & 64GB SATA SSD
M/B	PCOM-B641 & PCOM-C605, w/N3350 Apollo lake, 2GB X1 DDR3L
Operating System	Cent OS 7
Operating Temperature	-20~50 ℃

Memory

		DDR3L SO-DIMM
B473F360	2GB	(GP).DDR3L SO-DIMM DRAM Module 2GB DDR3-1333 (30mi) 1.35V , 256x8, Hynix

Adaptor

APH-3051, FSP060-DIBAN2. 60W AC/DC Power Adapter.
DC-plug with screw

Storage

		CFEX / SLC with SPI
B473D890	2GB	(GP). 2 GB CFEX Card ,SPI. Toshiba SLC (CFXST2GSC / 4G x4 / 4CH)
		2.5' SATA III SSD SMI 2246EN + MICRON MLC
B473G010	64GB	(GP). 64GB. SATA III. TS46EMM 2.5 Inch SSD. Micron/Transcend

Wall Mount

B787D340, WEBS-3560.Wall mount Kit

API: Application Programming Interface

Portwell API(Application Programming Interface) is a bridge to simplify and enhance H/W & S/W application implementation efficiency

User program /PW API Utility

| Get/Set GPIO | Get/Set H/W monitor | Get/Set WDT | Read/Write SMBUS |

PW API

Hardware dependent code

Portwell mainboard

| EC | ITE | Windbond | Fintek | South bridge | North bridge | CPU |

What API do ?

- Hardware monitor- (PWR, Temp, Fan speed)
- Fan control - (Temp controls fan speed)
- GPIO control (programmable)
- WDT (Reset, Show-down, NMI)
- SMBus (controlled by PCH)
- I²C