

CCC VANGUARD S5 PRO UPGRADE PACKAGE (VUP)



Extend the life, security, communication, control and diagnostics of your existing Series 5 Vanguard hardware.



THE NEXT LEVEL OF PERFORMANCE FOR SERIES 5 VANGUARD IS YOURS NOW.

Since 2000, the Series 5 Vanguard has been the industry standard for precision turbomachinery control. Now, with the introduction of the Vanguard S5 Pro, your Vanguard system can provide decades of additional service. Vanguard S5 Pro provides all the benefits and functionality of Prodigy using your existing Vanguard hardware, such as advanced control applications.

CYBERSECURITY AND CONNECTIVITY

The CCC Vanguard S5 Pro is certified to ISASecure® Component Security Assurance (CSA) 1.0.0 Capability Security Level 2 for conformance with ISA/IEC 62443-4-2 cybersecurity standards, enhancing security of the system. The control platform provides secure connectivity with CCC supervisory systems and 3rd party systems. S5 Pro supports MQTT Sparkplug B communication for lightweight Publish/Subscribe communication for integration with next generation of CCC operator HMI software. This lightweight Publish/Subscribe (Pub/Sub) protocol enables secure, bandwidth-efficient, and scalable communication that supplements the existing capabilities of your existing S5 Vanguard control system.

**FULLY INTEGRATED
PLATFORM FOR
YOUR CHALLENGING
TURBOMACHINERY
CONTROL NEEDS**

IT'S MORE THAN A LIFE EXTENSION. IT'S A STEP CHANGE TO LATEST CONTROL TECHNOLOGIES.

Plug-in migration solution to extend lifecycle and enhance security and connectivity of your S5 Vanguard

Vanguard S5 Pro offers a plug-in migration solution to extend lifecycle of existing S5 Vanguard control system, which were designed for support of 576 I/O points. Vanguard S5 Pro runs CCC's ProOS, similar to Prodigy, with an intuitive programming environment for total train control including sequencing and auxiliary system for your turbomachinery. The following IEC 61131-3 programming language standards are supported:

- Ladder diagram (LD)
- Function block diagram (FBD)
- Structured text (ST)
- Instruction list (IL)
- Sequential function chart (SFC)



ISA Secure®



ENHANCED REDUNDANCY AND DIAGNOSTICS

Vanguard S5 Pro runs ProOS which improves system availability and maintenance ease-of-use.



Flexible switching

Modular redundancy at every level
– from power supplies, to main processors, to I/O processors



Better diagnostics

Higher-resolution archiving with
Sequence of Events (SoE) for digital
inputs at 3 msec resolution



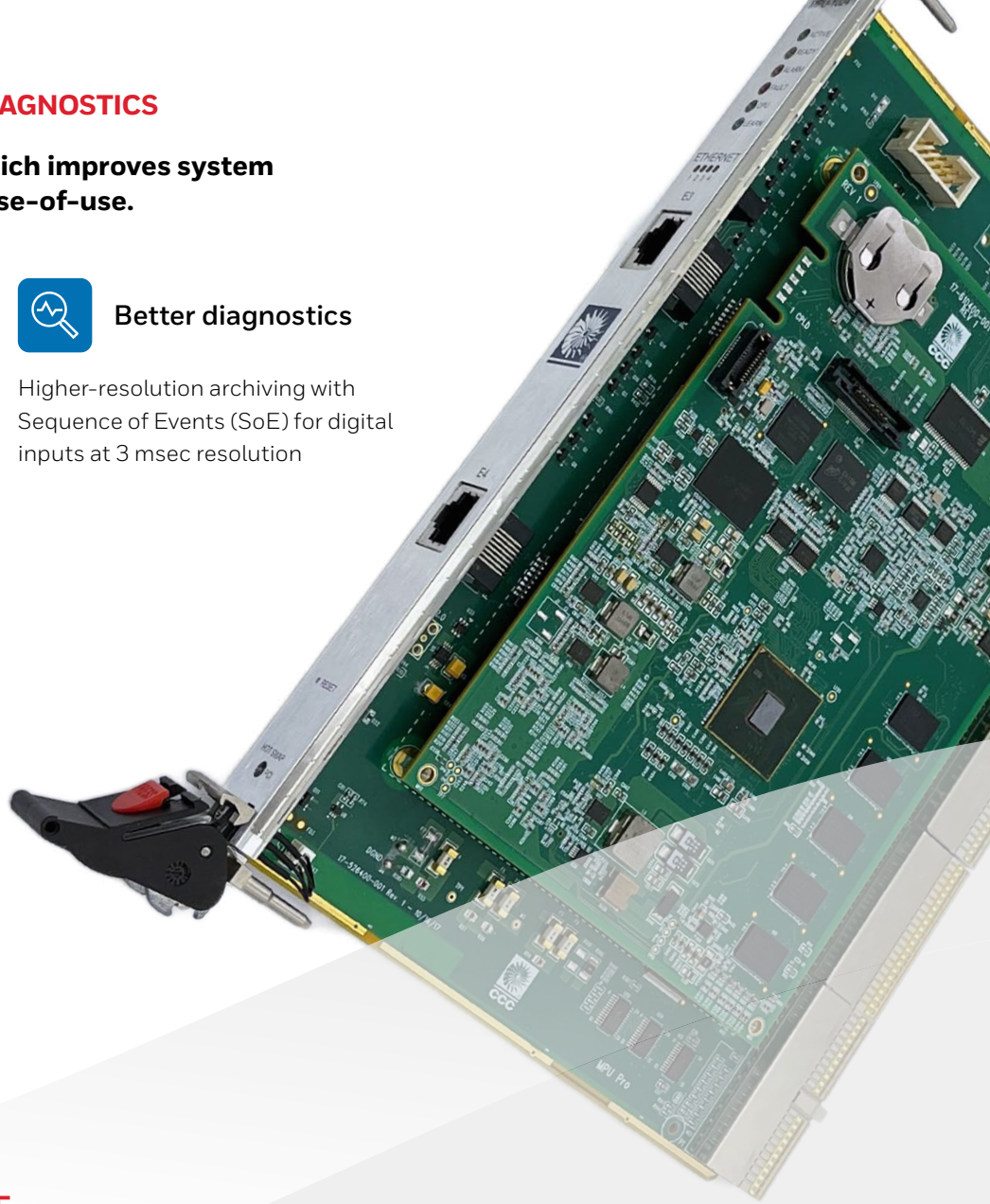
Extended Life Cycle

Protect your assets with updated
software and hardware through
new processor card



Self-learning

Plug-and-play replacement of
faulty card without the need to
manually load configuration files



DEFENSE-IN-DEPTH FOR SOME OF THE MOST CRITICAL ASSETS IN YOUR PROCESS

Safe, reliable, and efficient operations of turbomachinery trains is critical to process facilities. Vanguard S5 Pro helps you secure these assets with the following industry-leading capabilities:



Encrypted Communication

Prevent network sniffing of
sensitive data like credentials



Security Logs

Ensure traceability of
security events



Secure Boot TPM

Fully symmetrical modular
redundancy at every level – from
power supplies, communication,
main processors, to I/O processors



Communication Robustness

Certified for GE Digital Achilles
Communications Certification Level 1 to
defend against denial of service attacks.



Hardening Options

Further harden the device by optionally
disabling non-essential functions



MQTT Sparkplug B

Lightweight, publish/subscribe secure
communication for integration with the
next generation of CCC operator HMI

THE TRUSTED NAME FOR TURBOMACHINERY OPTIMIZATION



2 Billion
Operating
Hours



10,000+
Machines



40+
OEMs



150+
Turbomachinery
Experts



14 Worldwide
Offices



For more information

<https://process.honeywell.com/us/en/products/turbomachinery-automation-systems/ccc-pro-built/control-systems/vanguard-s5-pro>

Compressor Controls Corporation

4745 121st Street
Des Moines, IA 50323-2316 USA
+1-515-270-0857
process.honeywell.com/us/en/ccc
dl-ccc-solutions@honeywell.com

CCC Vanguard S5 Pro Upgrade Package (VUP) | v1 | 08/25
© 2025 Honeywell International Inc.

**CONTACT
YOUR NEAREST
CCC SALES
REP TODAY**

