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# PCM5: Process Control Module 5

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The NovaTech D/3® Process Control Module 5, PCM5, represents a leap forward in the development, virtualization, and Cyber Security capabilities of the D/3 PCM family.

The PCM5 runs a lean Yocto tailored Linux Open Embedded OS and newly developed control software written in high-level programming languages, e.g., C and C++. The intuitive LCD touch panel with text messages and engineering units makes it easy to monitor the state of the PCM5.

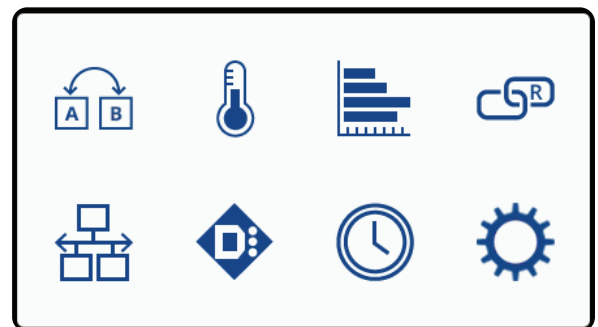
The 2U rack mounted PCM5 is built for the industrial environment with a 0°C to +50°C operating range and no moving parts. It also has redundant hot-swappable load sharing power supplies which can be powered from separate sources so it can keep running when you experience power problems in your plant. The PCM5 can be made fully redundant with the addition of a second PCM5, a 1U rack mounted PCM5 Redundancy Module, and Ethernet cables. This makes it easy to upgrade the D/3 while controlling your processes and improves your control system's MTBF.

## Key Features

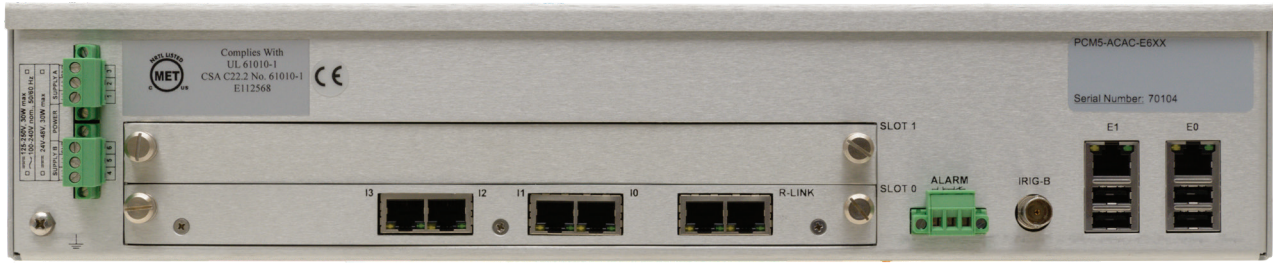
- Quad core processor - all D/3 related applications benefit from the four cores
- 64-bit CPU architecture
- Non-volatile memory
- Load sharing hot-swappable power supplies
- No moving parts
- LCD touch panel

## Software Features

- Larger SABL® programs – up to 256Kb when compiled
- Virtual PCMs for application development and testing
- Futureproof – platform for adding future apps, enhancements, and expanded capability
- Lean Yocto tailored Linux Open Embedded OS
- PCM5 software developed in C and C++ - facilitates development of new features
- Built in Cyber Security
  - Firewall configured from WinCOD data and enabled by default
  - Trusted Platform and Secure Boot hardware capable (software enabled in future release)
- Improved diagnostics, including plain-English, software-based diagnostics, alarming, and troubleshooting



Redundant LCD Panel



Rear View of PCM5 Showing

## Specifications

<b>Redundant Power Supplies</b>	Yes, hot swappable load-sharing, individual supply capable of operating the unit
<b>Universal AC Input</b>	85-264V ac at 50-60Hz [nominal ranges: 110/120/220/230/240 V ac]
<b>Isolation</b>	2kV
<b>Compliance</b>	IEC 61010-1-201 and IEC 61326 standards
<b>Power Input</b>	75 Watts
<b>Physical</b>	2U Rack Mount, 17W x 3.5H x 13.5D (in), plus rear-cable clearance, 10lbs
<b>CPU Speed</b>	Quad Core, each @ 1.91Ghz
<b>Architecture</b>	64-bit
<b>Volatile Memory</b>	2GB
<b>Non-volatile Memory</b>	8GB
<b>Operating Temperature</b>	0 - 50°C
<b>Front Side Bus Speed-CPU to RAM</b>	1333MHz
<b>MTBF</b>	100,000 hours
<b>1 Gbit/Sec Ethernet Ports</b>	4 I/O, 1 Redundancy Module, 1 Rlink, E0, E1
<b>Local Diagnostics</b>	LCD Touchscreen, text with engineering units
<b>Cyber Security Built-in</b>	Firewall Built-in; Trusted Platform and Secure Boot Hardware
<b>Supported I/O Protocols</b>	8000I/O Modbus/TCP EtherNet/IP Class 3 DF1 Over Ethernet (SLC and PLC5) Anybus and AS-Interface Gateways
<b>Larger SABL® Programs</b>	256Kb Compiled Program Size
<b>Bumpless Failover with Redundant PCMs</b>	Yes
<b>Operating System</b>	Linux Open Embedded Kernel / COTS OS



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