

Product Bulletin PB010909: nv series Controller Product Release**TOSDIC-CIE DS: nv series**

Toshiba International Corp is pleased to announce the release of its latest series for control systems, the nv series.

The nv series consists of powerful processors suited for high speed machine control and dual redundant process control. It also includes features such as high speed serial I/O, a high speed control network and a common hardware platform.

The nv series is best suited for plants or processes that require reliable, efficient control with the high speed connectivity to I/O and to the corporate network. When connected with Toshiba's OIS-DS HMI package you get the complete control system solution.

Flexibility - One platform for high speed machine control and dual redundant process control

One of the highlights of the nv series is its flexibility for the requirements of control in different industries. The nv series has been designed with a common platform for I/O, communications and control logic. All that is required is to select the processor for the type of control to be implemented. Processor Type 1 is best suited for high speed machine control, whereas Processor Type 2 is recommended for dual redundant process control.

High Speed Connectivity - TC-net I/O Network

The TC-net I/O system provides high speed connectivity along with the flexibility of serial I/O. A 100Mbps double loop network provides reliability, fast communication and data collection. The TC-net I/O modules can be configured for high or low scan rates of digital and analogue signals and these modules also allow hot swapping of modules and dual redundancy if required.

Plant Wide Connectivity - TC-net 100 Control Network

For today's systems, fast connectivity at the control and enterprise level are a must. The nv series is able to provide 1Gbps Ethernet and 100Mbps TC-net 100 control network to ensure that all information is available in real time.

Integration with older systems

Toshiba understands that plants expand and their controls systems need to adapt to these changes. The nv series provides this flexibility with interfaces for its older Toshiba systems such as DPCS and V3000.

The next generation of engineering software nV Tool 4 also supports this integration by providing the functionality to configure both nv and V series control logic and systems. This ensures that upgrades or expansion of current systems can be carried out easily and efficiently.

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The Complete Solution

The nv series connects with the Toshiba OIS-DS HMI package to provide the complete control system solution for the customer. OIS-DS provides clear operator displays, alarm management, trending and other features.

Robust and Reliable

Toshiba understands that control systems have to operate and survive in harsh environments. The nv series has been designed and built to Toshiba's high standards for quality, robustness and reliability. Many of Toshiba's older systems still operate today due to this level of quality. The nv series is the next generation in control and will provide years of efficient and reliable plant operation.

Specifications

Processor	Type1: High speed machine control Type2: Dual redundant process control
TC-net-I/O Serial I/O System	I/O network: 100Mbps, max 4km optical I/O modules: Scan up to 100μsec, online module swap
TC-net 100 Network	Control Network: 100Mbps Ethernet: 1Gbps
Configuration	nV Tool 4: IEC61131-3 compliant LD, FBD, SFC and ST supported Compatible with previous versions of VTool



For assistance please contact Toshiba on 02 9768 6600. We are committed to assisting our customers in finding the right solution for their plant or process.

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