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TOSDIC-CIE

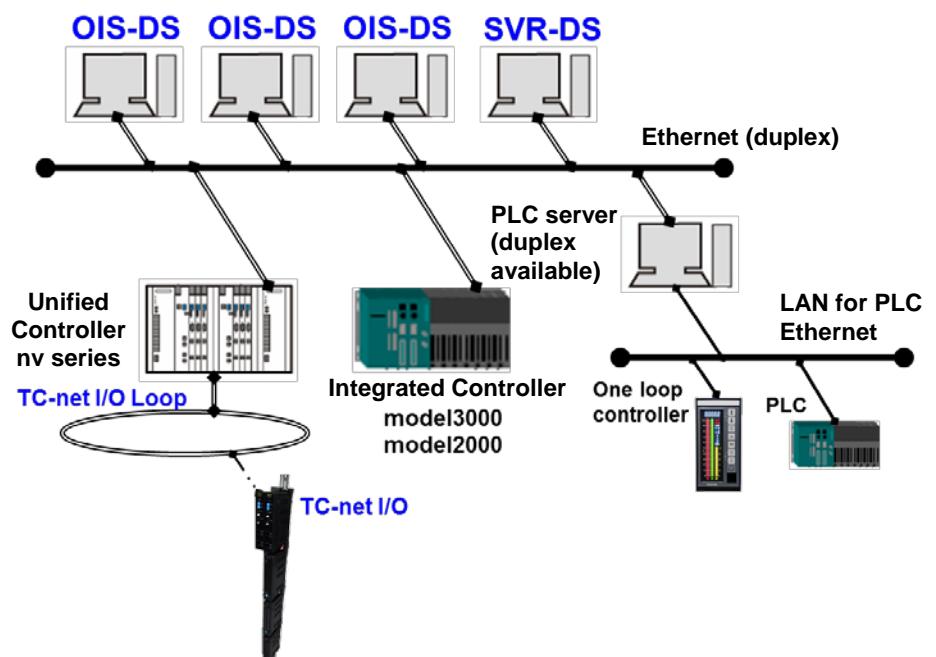
Unified Controller nv series supported

Connect Unified Controller nv series.

Unified Controller nv series is a high-speed/highly-advanced controller intended as a successor to the loop module for instrumentation and control in the integrated controller V series.

It's features include the following:

- (1) CPU module equipped with a language processor that enables high-speed execution of applications, and a memory with error detection and correction function (duplex available).
- (2) A highly-reliable and high-speed serial I/O system, TC-net I/O is supported, including dual loop transmission path.
- (3) Control LAN is configured with duplex 1G Ethernet.
- (4) It provides both an engineering environment for the Integrated Controller and practical engineering based on international standards and characteristic functions used in the instrumentation field.



Toshiba Group contributes to the sustainable future of planet Earth.



Maximum configuration of TOSDIC-CIE DS/nv station

Specification item	100M/1G Ethernet system
Max. number of stations to be connected	64 stations/system
SVR (SVR-DS63)	A single device or a pair of duplex devices
OIS (OIS-DS53)	22 units
OIS with server function (OIS-DS63)	A single device or a pair of duplex devices Not more than 16 units including OIS-DS53 (SVR is not connectable.)
Max. number of control stations to be connected	32 single devices or 32 pairs of duplex devices in any combination (8 single devices or 8 pairs of duplex devices only for PLCS)

- Control Station includes Unified Controller nv series, integrated controller V series model2000/3000, PCS-DS, PCS/E, DPCS/E, DPCS and PLCS.

Specifications of Unified Controller

Item	Specifications for instrumentation and control (type2)
Program capacity	512K steps
Local variables/global variables	256K words
I/O variables	16K words
Task	Fixed cycle High speed: 10-500ms; Main: 100-10,000ms Note) Operation period needs to be adjusted depending on control logic, tag point etc.
	Event Event: 8; I/O interruption: 16
Task switching time	60μs or less
Operations performance	Contact: 20ns; Integer addition: 20ns; Floating point addition: 120ns
Program language	Four IEC61131-3-compliant languages •LD (Ladder) •FBD (Function Block Diagram) •SFC (Sequential Function Chart) •ST (Structured Text)

Specifications of TC-net I/O Loop

Item	Electric	Optic
Topology	Dual loop	
Transmission rate	100Mbps	
I/O interface	32 nodes	
I/O module	16 modules/node	
Transmission cable	Shielded Category 5 twisted pair cable	Fiber optic cable GI 40/125μm
Max. length of cable	Up to 10m	Up to 2km
Total length	Up to 100m	Up to 4km
Scanning interval	High speed scanning: 200μs- ; Medium speed scanning: 1ms-	
Redundancy	Bypass control in the event of shutdown of transmission path Duplex configuration with dual loop	



Notes

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