# NX-series System Unit **NX-PD/PF/PC/TBX**

## Power Supply Unit, Power Connection Unit, and FG Terminal Expansion Unit for NX-series

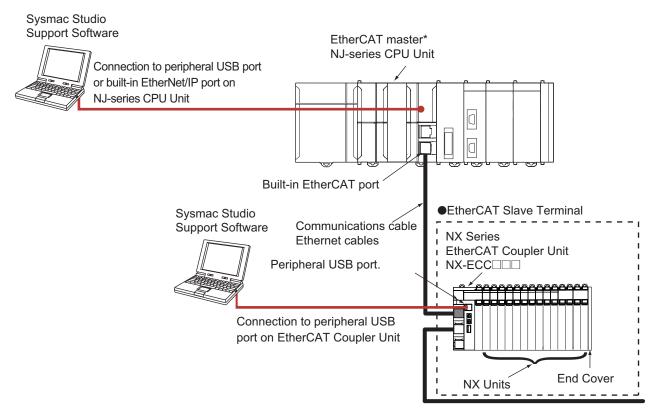
- Provide stabilised power to the internal circuits of NX I/O Units.
- Feed additional power to I/O circuits of NX I/O Units.
- Provide extra terminals for sensor/actuator power and termination of shielded cabling.



## Features

- Units to feed in additional Unit power and I/O power to an NX-series remote I/O terminal.
- Screwless clamp terminal block significantly reduces wiring work.
- · Space-saving 12 mm wide units.
- The NX Unit Power Supply Unit allows expansion of the I/O configuration beyond the maximum power supply capacity of the EtherCAT Coupler
- The I/O Power Supply Unit is used when the total allowed I/O current per feed terminal is exceeded, or to split I/O power into groups.
- The I/O Power Connection Unit can be used as an additional power supply terminal for connected sensors and actuators.
- The FG Terminal Expansion Unit can be used as ground terminal for wire shields.
- The screwless terminal block is detachable for easy commissioning and maintenance.

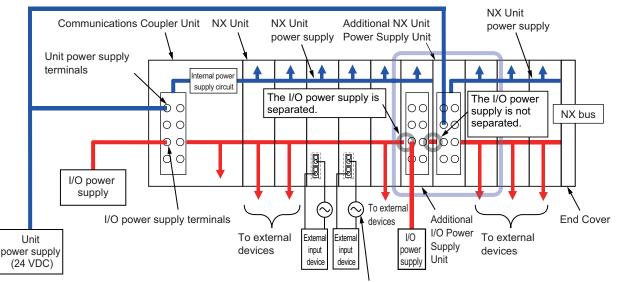
## System Configuration



\* OMRON CJ1W-NC 81/282 Position Control Units cannot be connected to the EtherCAT Slave Terminal even though they support EtherCAT.

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## **Power Supply Systems**



I/O power supply (Supply from external source)

Note: Supply the Unit power and the I/O power from different power supplies. If you supply power from the same power supply the galvanic separation between the bus system and the I/O circuits is no longer effective. Noise generated in the I/O circuits may cause malfunctions in the internal circuits of the units.

## **Ordering Information**

#### International Standards

- The standards are abbreviated as follows: U: UL, U1: UL(Class I Division 2 Products for Hazardous Locations), C: CSA, UC: cULus, UC1: cULus
- (Class I Division 2 Products for Hazardous Locations), CU: cUL, N: NK, L: Lloyd, CE: EC Directives, and KC: KC Registration.
- Contact your OMRON representative for further details and applicable conditions for these standards.

#### Additional NX Unit Power Supply Unit

Unit type	Product Name	Power supply voltage	NX Bus power supply capacity	NX Unit power consumption	Model	Standards
NX Series System Unit	Additional NX Unit Power Supply Unit	24 VDC (20.4 to 28.8 VDC)	10 W max.	0.45 W max.	NX-PD1000	UC1, N, L, CE, KC

#### Additional I/O Power Supply Unit

Unit type	Product Name	Power supply voltage	I/O power feed maximum current	NX Unit power consumption	Model	Standards
NX Series	Additional I/O Power Supply Unit	5 to 24 VDC	4 A	- 0.45 W max.	NX-PF0630	UC1, N, L, CE, KC
System Unit		(4.5 to 28.8 VDC)	10 A		NX-PF0730	

#### I/O Power Supply Connection Unit

Unit type	Product Name	Number of I/O power terminals	Current capacity of I/O power terminal	NX Unit power consumption	Model	Standards
	I/O Power Supply Connection Unit	IOG: 16 terminals	4 A/terminal max.	0.45 W max.	NX-PC0010	UC1, N, L, CE, KC
NX Series System Unit		IOV: 16 terminals	4 A/terminal max.	0.45 W max.	NX-PC0020	UC1, N, L, CE, KC
		IOV:8 terminals IOG:8 terminals	4 A/terminal max.	0.45 W max.	NX-PC0030	UC1, N, L, CE, KC

#### **Shield Connection Unit**

Unit type	Product Name	Number of shield terminals	NX Unit power consumption	Model	Standards
NX Series System Unit	Shield Connection Unit	14 terminals (The following two terminals are functional ground terminals.)	0.45 W max.	NX-TBX01	UC1, N, L, CE, KC

## **Optional Products**

Product Name		Speci	fication		Model	Standards
Unit/Terminal Block Coding Pins	For 10 Units (Terminal Block: 30 pins, Unit: 30 pins)			NX-AUX02	-	
		Specification				
Product Name	No. of terminals	Terminal number indications	Ground terminal mark	Terminal current capacity	Model	Standards
		- A/B	None	10 A	NX-TBA082	
Terminal Disals	8		Provided		NX-TBC082	
Terminal Block	10		None		NX-TBA162	
	16		Provided		NX-TBC162	

#### Accessories

There are no accessories.

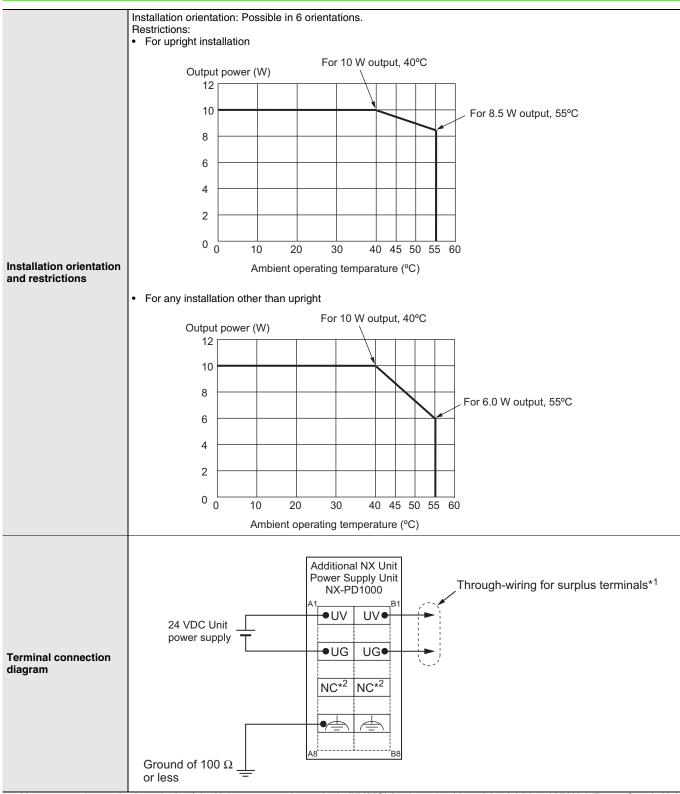
## **General Specification**

	Item	Specification	
Enclosure		Mounted in a panel	
Grounding method		Ground to 100 $\Omega$ or less	
	Ambient operating temperature	0 to 55°C	
	Ambient operating humidity	10% to 95% (with no condensation or icing)	
	Atmosphere	Must be free from corrosive gases.	
	Ambient storage temperature	-25 to 70°C (with no condensation or icing)	
	Altitude	2,000 m max.	
	Pollution degree	2 or less: Conforms to JIS B3502 and IEC 61131-2.	
Operating environment	Noise immunity	2 kV on power supply line (Conforms to IEC61000-4-4.)	
environment	Overvoltage category	Category II: Conforms to JIS B3502 and IEC 61131-2.	
	EMC immunity level	Zone B	
	Vibration resistance	Conforms to IEC 60068-2-6. 5 to 8.4 Hz with 3.5-mm amplitude, 8.4 to 150 Hz, acceleration of 9.8 m/s <sup>2</sup> , 100 min each in X, Y, and Z directions (10 sweeps of 10 min each = 100 min total)	
	Shock resistance	Conforms to IEC 60068-2-27. 147 m/s <sup>2</sup> , 3 times each in X, Y, and Z directions	
Applicable standards		cULus: Listed UL508 and ANSI/ISA 12.12.01 EC: EN 61131-2 and C-Tick, KC Registration, NK, LR	

## **Specification**

#### Additional NX Unit Power Supply Unit NX-PD1000

	wer Supply Unit NX-PD1000					
Unit name	Additional NX Unit Power Supply Unit					
Model	NX-PD1000					
External connection terminals	crewless push-in terminal block (8 terminals)					
Power supply voltage	24 VDC (20.4 to 28.8 VDC)					
NX Bus power supply capacity	10 W max. (Refer to Installation orientation and restrictions for details.)					
NX Unit power supply efficiency	70%					
Unwired terminal current capacity	4 A max. (Including the current of through-wiring)					
Dimensions	12 (W) × 100 (H) 71 × (D)					
Isolation method	No-isolation					
Insulation resistance	20 M $\Omega$ min. between isolated circuits (at 100 VDC)					
Dielectric strength	510 VAC between isolated circuits for 1 minute at a leakage current of 5 mA max.					
NX Unit power consumption	0.45 W max.					
I/O current consumption	No consumption					
Weight	65 g max.					
Circuit layout	Terminal block (Functional ground - terminal) (Functional ground - (Functional ground -					



\*1. You can use the unwired terminals of the Unit power supply terminals (UV/UG) for through-wiring of the Additional NX Unit Power Supply Unit or the Unit power supply terminals on the EtherCAT Coupler Unit.

\*2. The NC terminal is not connected to the internal circuit.

Additional I/O	Power Supr	oly Units NX-PF	0⊟30
Additional #0	i onoi oupp		

	Supply Units NX-PF0□30				
Unit name	Additional I/O Power Supply Unit				
Model	NX-PF0630 NX-PF0730				
External connection terminals	Screwless push-in terminal block (8 terminals)				
Power supply voltage	5 to 24 VDC (4.5 to 28.8 VDC)*				
/O power supply naximum current	4 A 10 A				
Current capacity of I/O oower supply terminal	A max. 10 A max.				
Dimensions	12 (W) × 100 (H) 71 × (D)				
solation method	No-isolation				
nsulation resistance	20 M $\Omega$ min. between isolated circuits (at 100 VDC)				
Dielectric strength	510 VAC between isolated circuits for 1 minute at a leakage current of 5 mA max.				
VX Unit power consumption	0.45 W max.				
/O current consumption	10 mA max.				
Weight	65 g max.				
Circuit layout	IOV       IOV       IOV         IOV       IOV         IOV       IOV         IOV       IOV         IOV       IOV         IOV       IOV         IOV       IOV         IOV       IOV         IOV       IOV         IOV       IOV         IOG       IOG         IOG       IOG         IOG       Internal circuits         NX Unit power supply +       NX Unit power supply +         NX Unit power supply +       I/O power supply +         I/O power supply -       IO PWR Indicator				
nstallation orientation and restrictions	Installation orientation: Possible in 6 orientations. Restrictions: No restrictions				
Ferminal connection diagram	Additional I/O Power Supply Unit NX-PF0630 A1 IOV IOV IOV IOV IOV IOV IOV IOV				
Overload/low voltage	A8     B8      A8     B8       Not supported				
detection					
Protective function	Not supported.				

\* Use an output voltage that is appropriate for the I/O circuits of the NX Units and the connected external devices.

NO FOWER Supply Con	nnection Unit IOG terminal type NX-PC0010						
Unit name	I/O Power Supply Connection Unit						
Model	NX-PC0010						
External connection terminals	Screwless push-in terminal block (16 terminals)						
Number of I/O power supply terminals	IOG: 16 terminals						
Current capacity of I/O power supply terminal	4 A/terminal max.						
Dimensions	12 (W) × 100 (H) 71 ×(D)						
Isolation method	No-isolation						
Insulation resistance	20 M $\Omega$ min. between isolated circuits (at 100 VDC)						
Dielectric strength	510 VAC between isolated circuits for 1 minute at a leakage current of 5 mA max.						
NX Unit power consumption	0.45 W max.						
I/O current consumption	No consumption						
Weight	65 g max.						
Circuit layout	NX bus connector (left)       NX Unit power supply +       IOG       NX Unit power supply +       NX Unit power supply +         NX bus connector (left)       NX Unit power supply +       Internal circuits       NX Unit power supply -       NX bus connector (right)         I/O power supply +       I/O power supply -       I/O power supply -       I/O power supply -       NX bus connector (right)						
Installation orientation and restrictions	Installation orientation: Possible in 6 orientations. Restrictions: No restrictions						
Terminal connection diagram	I/O Power Supply Connection Unit A1 NX-PC0010 IOG IOG IOG IOG IOC IOV IOV IOV     Three-wire type						

#### nnection Unit IOC ninalt

I/O Power Supply Con	nection Unit IOV terminal type NX-PC0020						
Unit name	I/O Power Supply Connection Unit						
Model	NX-PC0020						
External connection terminals	Screwless push-in terminal block (16 terminals)						
Number of I/O power supply terminals	IOV: 16 terminals						
Current capacity of I/O power supply terminal	4 A/terminal max.						
Dimensions	12 (W) × 100 (H) 71 × (D)						
Isolation method	No-isolation						
Isolation resistance	20 M $\Omega$ min. between isolated circuits (at 100 VDC)						
Dielectric strength	510 VAC between isolated circuits for 1 minute at a leakage current of 5 mA max.						
NX Unit power consumption	0.45 W max.						
I/O current consumption	No consumption						
Weight	65 g max.						
Circuit layout	Terminal block       IOV         IOV       IOV         IOV       IOV         IOV       IOV         IOV       IOV         IOV       INX         INX       Unit power supply +         INX       Unit power supply -         I/O power supply +       I/O power supply +         I/O power supply -       I/O power supply -         I/O power supply -       I/O power supply -						
Installation orientation and restrictions	Installation orientation: Possible in 6 orientations. Restrictions: No restrictions						
Terminal connection diagram	I/O Power Supply Connection Unit A1 NX-PC0020 B1     DC Input Unit or Transistor Output Unit A1     Three-wire type       IOV IOV     IOV     IOV       IOV IOV     0       IOV IOV     10G       IOV IOV     4       IOV IOV     6       IOV IOV     6       IOV IOV     A8       B8     A8						

#### ation ainal tu

	Inection Unit IOV/IOG terminal type NX-PC00300						
Unit name	I/O Power Supply Connection Unit						
Model	NX-PC0030						
External connection terminals	Screwless push-in terminal block (16 terminals)						
Number of I/O power supply terminals	OV: 8 terminals OG: 8 terminals						
Current capacity of I/O power supply terminal	4 A/terminal max.						
Dimensions	12 (W) × 100 (H) 71 × (D)						
Isolation method	No-isolation						
Insulation resistance	20 MΩ min. between isolated circuits (at 100 VDC)						
Dielectric strength	510 VAC between isolated circuits for 1 minute at a leakage current of 5 mA max.						
NX Unit power consumption	0.45 W max.						
I/O current consumption	No consumption						
Weight	65 g max.						
Circuit layout	Terminal block NX bus connector (left) NX Unit power supply + NX Unit power supply - NX Unit power supply - NX Disconnector (right) NX Unit power supply - NX Unit power supply - NX Disconnector (right)						
Installation orientation and restrictions	Installation orientation: Possible in 6 orientations. Restrictions: No restrictions						
Terminal connection diagram	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$						

#### nnection Unit IOV/IOC 1/0 Power Supply Co erminal type NX-PC

#### Shield Connection Unit NX-TBX01

Shield Connection Un	it NX-TBX01						
Unit name	Shield Connection Unit						
Model	NX-TBX01						
External connection terminals	Screwless push-in terminal block (16 terminals)						
Number of shield terminals	14 terminals (The following two terminals are functional ground terminals.)						
Dimensions	12 (W) × 100 (H) 71 × (D)						
Isolation method	Isolation between the SHLD functional ground terminal, and internal circuit: No-isolation						
Insulation resistance	20 M $\Omega$ min. between isolated circuits (at 100 VDC)						
Dielectric strength	510 VAC between isolated circuits for 1 minute at a leakage current of 5 mA max.						
NX Unit power consumption	0.45 W max.						
I/O current consumption	No consumption						
Weight	65 g max.						
Circuit layout	Terminal block       SHLD terminal SHLD terminal         NX bus connector (left)       NX Unit power supply + I/O power supply + I/O power supply -						
Installation orientation and restrictions	Installation orientation: Possible in 6 orientations. Restrictions: No restrictions						
Terminal connection diagram	Ground of 100 Ω						
	or less						

## NX-PD\_PF\_PC\_TBX

## **Version Information**

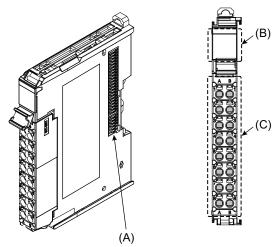
NX	Units	Corresponding unit versions/versions				
Model Unit Version		EtherCAT Coupler Units NX-ECC201/ECC202*	Sysmac Studio			
NX-PD1000				Vor 1 06 or higher		
NX-PF0630				Ver.1.06 or higher		
NX-PF0730				Ver.1.08 or higher		
NX-PC0020	Ver.1.0	Ver.1.0 or later	Ver.1.05 or later			
NX-PC0010				Vor 1 06 or higher		
NX-PC0030				Ver.1.06 or higher		
NX-TBX01						

\* For the NX-ECC202, there is no unit version of 1.1 or earlier.

## **External Interface**

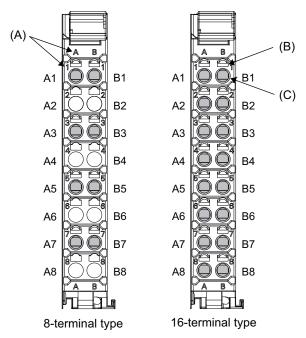
# Additional NX Unit Power Supply Unit, Additional I/O Power Supply Unit, I/O Power Supply Connection Unit, and Shield Connection Unit

NX-PD1000/NX-PF0□30/NX-PC00□0/NX-TBX01



Symbol	Name	Function			
(A)	NX bus connector	This connector is used to connect each Unit.			
(B)	Indicators	The indicators show the current operating status of the Unit.			
(C)	Terminal block	The terminal block is used to connect external devices. The number of terminals depends on the type of Unit.			

#### **Terminal Blocks**



Symbol	Name	Function				
{A)	Terminal number indications	Terminal numbers for which A and B indicate the column, and 1 to 8 indicate the line are displayed. The terminal number is a combination of column and line, so A1 to A8 and B1 to B8 are displayed. The terminal number indications are the same regardless of the number of terminals on the terminal block.				
(B)	Release holes	Insert a flat-blade screwdriver into these holes to connect and remove the wires.				
(C)	Terminal holes	The wires are inserted into these holes.				

#### Applicable Terminal Blocks for Each Unit Model

	Terminal Blocks							
Unit model	Model	No. of terminals	Terminal number indications	Ground terminal mark	Terminal current capacity			
NX-PD1000	NX-TBC082	8	A/B	Provided	10 A			
NX-PF0630	NX-TBA082	8	A/B	None	10 A			
NX-PF0730	NX-TBA082	8	A/B	None	10 A			
NX-PC	NX-TBA162	16	A/B	None	10 A			
NX-TBX01	NX-TBC162	16	A/B	Provided	10 A			

## **Applicable Wires**

#### **Using Ferrules**

If you use ferrules, attach the twisted wires to them.

Observe the application instructions for your ferrules for the wire stripping length when attaching ferrules.

Always use plated one-pin ferrules. Do not use unplated ferrules or two-pin ferrules.

The applicable ferrules, wires, and crimping tool are given in the following table.

Terminal types	Manufacturer	Ferrule model	Applicable wire (mm <sup>2</sup> (AWG))	Crimping tool
Terminals other			0.34 (#22)	Phoenix Contact (The figure in parentheses is the applicable wire
than ground terminals		AI0,5-8	0.5 (#20)	size.) CRIMPFOX 6 (0.25 to 6 mm², AWG 24 to 10)
terminals		Al0,5-10		
		AI0,75-8	0.75 (#18)	
		Al0,75-10		
		Al1,0-8	1.0 (#18)	
		Al1,0-10		
		Al1,5-8	1.5 (#16)	
		Al1,5-10		
Ground terminals	-	Al2,5-10	2.0 *1	
Terminals other	Weidmuller	H0.14/12	0.14 (#26)	Weidmueller (The figure in parentheses is the applicable wire size.)
than ground terminals		H0.25/12	0.25 (#24)	PZ6 Roto (0.14 to 6 mm <sup>2</sup> , AWG 26 to 10)
terminals		H0.34/12	0.34 (#22)	
		H0.5/14	0.5 (#20)	
		H0.5/16		
		H0.75/14	0.75 (#18)	
		H0.75/16		
		H1.0/14	1.0 (#18)	
		H1.0/16		
		H1.5/14	1.5 (#16)	
		H1.5/16	1	

\*1. Some AWG 14 wires exceed 2.0 mm<sup>2</sup> and cannot be used in the screwless clamping terminal block.

When you use any ferrules other than those in the above table, crimp them to the twisted wires so that the following processed dimensions are achieved.

1.6 mm max. (Terminals other than ground terminals)	8 to	10 mm ~
2.0 mm max. (Ground terminals)		<ul><li>2.4 mm max.</li><li>(Terminals other than ground terminals)</li><li>2.7 mm max.</li><li>(Ground terminals)</li></ul>

#### **Using Twisted Wires/Solid Wires**

If you use the twisted wires or the solid wires, use the following table to determine the correct wire specifications.

Terminals		Wire type		Wire plating			Conductor
Classification	Current capacity	Twisted wires	Solid wire	Plated	Unplated	Wire size	length (stripping length)
All terminals except ground terminals	2 A max.	Possible	Possible	Possible	Possible	0.08 to 1.5 mm <sup>2</sup> AWG28 to 16 8 to 1	
	Greater than 2 A and 4 A or less			Possible	Not Possible		8 to 10 mm
	Greater than 4 A		Not Possible		Possible		
Ground terminals *			Possible		Possible	2.0 mm <sup>2</sup>	9 to 10 mm

\* With the NX-TB 1 Terminal Block, use twisted wires to connect the ground terminal. Do not use a solid wire.

Conductor length (stripping length)

<Additional Information> If more than 2 A will flow on the wires, use plated wires or use ferrules.

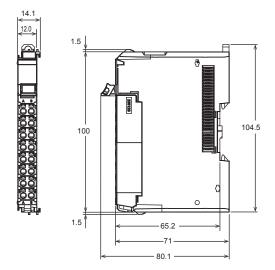
## NX-PD\_PF\_PC\_TBX

## Dimensions

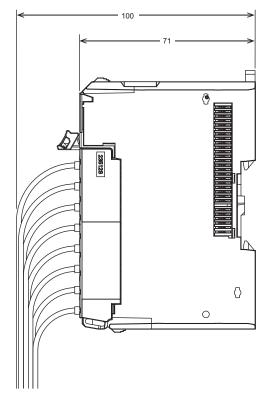
(Unit: mm)

# Additional NX Unit Power Supply Unit, Additional I/O Power Supply Unit, I/O Power Supply Connection Unit, and Shield Connection Unit NX-PD1000/NX-PF0\_30/NX-PC00\_0/NX-TBX01

#### • Unit Only



#### With Cables Connected



## **Related Manuals**

Man. No	Model	Manual	Application	Description
W523	NX-PD1 NX-PF0 NX-PC0 NX-TBX	NX-series System Unit User's Manual	Learning how to use NX- series System Units	The hardware and functions of the NX-series System Units are described.

Read and understand this catalog.

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NX-TBX01 NX-PC0030 NX-PF0630 NX-PC0020 NX-PD1000 NX-PC0010





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Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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