NX-PD/PF/PC/TBX

CSM_NX-PD_PF_PC_TBX_DS_E_3_2

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

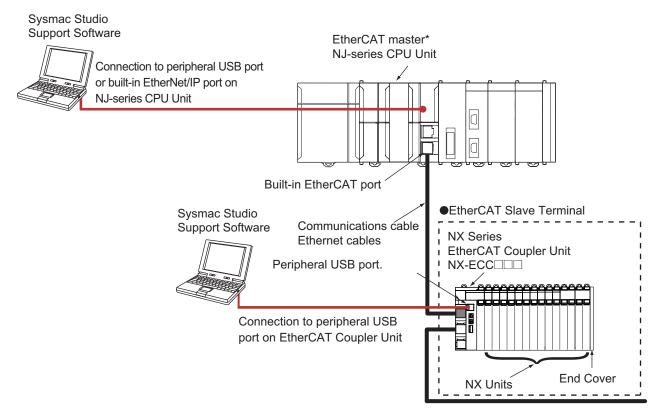
- Provide stabilised power to the internal circuits of NX I/O Units.
- Feed additional power to I/O circuits of NX I/O Units.
- Provide extra terminals for sensor/actuator power and termination of shielded cabling.



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

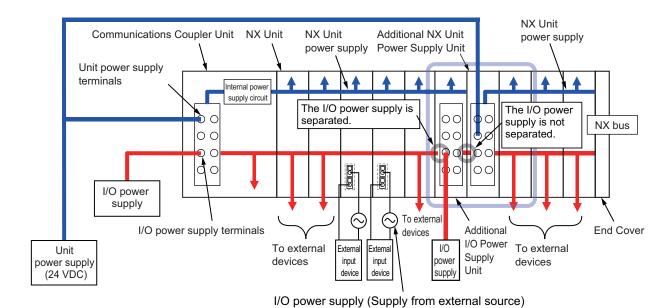


^{*} OMRON CJ1W-NC 81/ 82 Position Control Units cannot be connected to the EtherCAT Slave Terminal even though they support EtherCAT.

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Power Supply Systems



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
	Additional NX Unit Power Supply Unit					
NX Series System 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 mov	NX-PF0630	UC1, N, L,
System Unit		(4.5 to 28.8 VDC)	10 A	0.45 W max.	NX-PF0730	CE, KC

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	Specification	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
	8	— A/B	None	10.4	NX-TBA082	
Terminal Block			Provided		NX-TBC082	
Terminal block	10		None	10 A	NX-TBA162	
	16		Provided	-	NX-TBC162	

Accessories

There are no accessories.

General Specification

	Item	Specification
Enclosure		Mounted in a panel
Grounding me	ethod	Ground to 100 Ω 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/s², 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/s², 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 Unit name Additional NX Unit Power Supply Unit Model NX-PD1000 **External connection** Screwless push-in terminal block (8 terminals) terminals 24 VDC (20.4 to 28.8 VDC) Power supply voltage NX Bus power supply 10 W max. (Refer to Installation orientation and restrictions for details.) capacity **NX Unit power supply** 70% efficiency **Unwired terminal** 4 A max. (Including the current of through-wiring) current capacity **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** 0.45 W max. consumption I/O current No consumption consumption Weight 65 g max. Terminal block (Functional ground terminal) No-isolatio power (Functional ground supply circuit **UNIT PWR** terminal) LED **Circuit layout** NX Unit power supply + NX Unit power supply + Internal circuits NX bus NX bus NX Unit power supply -NX Unit power supply connector connector (left) (right) I/O power supply + I/O power supply + I/O power supply -I/O power supply - _ **DIN Track contact plate** (Unit track surface)

Installation orientation: Possible in 6 orientations. Restrictions: · For upright installation For 10 W output, 40°C Output power (W) 12 10 For 8.5 W output, 55°C 8 6 4 2 0 0 40 45 50 55 60 20 30 10 Installation orientation Ambient operating temparature (°C) and restrictions For any installation other than upright For 10 W output, 40°C Output power (W) 12 10 8 For 6.0 W output, 55°C 6 4 2 0 0 10 20 30 40 45 50 55 60 Ambient operating temperature (°C) Additional NX Unit Power Supply Unit Through-wiring for surplus terminals*1 NX-PD1000 UV 24 VDC Unit power supply •UG UG• **Terminal connection** diagram NC*2 NC*2 Ground of 100 Ω or less

^{*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.

ternal connection minals seer supply votage 5 to 24 VDC (4.5 to 28.8 VDC)* 10 A 10 A max. 12 (W) x 100 (H) 71 x (D) 15 to 10 A between isolated circuits (at 100 VDC) 16 to 10 A 17 to 10 A 18 to 10 A max. 18 to 10 A max. 19 to 10 A max. 19 to 10 A max. 10 M min. between isolated circuits (at 100 VDC) 19 to 10 A 10 A max. 10 M m max. 10 M m m m max. 10 M m m m m m m m m m m m m m m m m m m	Init name	Additional I/O Power Supply Unit	
Screwless push-in terminal block (8 terminals)	odel		NX-PF0730
Provided Supply voltage 5 to 24 VDC (4.5 to 28.8 VDC)"	ternal connection		
A A max. 10 A max. 10 A m	wer supply voltage	5 to 24 VDC (4.5 to 28.8 VDC)*	
mensions 12 (W) × 100 (H) 71 × (D) No-isolation method No-isolation Please of the transport of the transpo	power supply	·	10 A
Statillation orientation Description		4 A max.	10 A max.
sulation resistance electric strength C Unit power Supply 10 AND Deleven isolated circuits for 1 minute at a leakage current of 5 mA max. Locurent Insumption 10 mA max. 10 mA max. 10 mA max. 10 mA max. 10 mX Unit power supply 10 minute at a leakage current of 5 mA max. 10 mA max. 10 mX minute at a leakage current of 5 mA max. 10 mA max. 10 mA max. 10 mX unit power supply 10 minute at a leakage current of 5 mA max. 10 mA max. 10 mA max. 10 mX minute at a leakage current of 5 mA max. 10 mA max. 10 mA max. 10 mX minute at a leakage current of 5 mA max. 10 mA max. 10 mA max. 10 mX minute at a leakage current of 5 mA max. 10 mA max. 10 mA max. 10 mX minute at a leakage current of 5 mA max. 10 mA max. 10 mA max. 10 mX minute at a leakage current of 5 mA max. 10 mA max. 10 mA max. 10 mX minute at a leakage current of 5 mA max. 10 mX unit power supply 10 minute at a leakage current of 5 mA max. 10 mA max.	mensions	12 (W) × 100 (H) 71 × (D)	1
Statilation orientation Installation orientation Installation orientations No power supply Installation Installation orientations No power supply Installation Installation orientations No power supply Installation Install	olation method	No-isolation	
Current Sight Si	sulation resistance	20 MΩ min. between isolated circuits (at 100 VDC)	
Current Sight Si	electric strength	510 VAC between isolated circuits for 1 minute at a leakage	ge current of 5 mA max.
reuit layout Terminal block NX Unit power supply + NX Unit power supply -	CUnit power	0.45 W max.	
Terminal block NX Unit power supply + NX Unit power supply - NX Uni	Current ensumption	10 mA max.	
Terminal block NX Unit power supply + NX Unit power supply - NX Unit power	eight	65 g max.	
Restrictions: No restrictions Additional I/O Power Supply Unit NX-PF0630 A1	ircuit layout	Terminal block IOG IOG IOG IOG IOG IOG IOG IOG IOG IO	NX Unit power supply - I/O power supply - I/O power supply - I/O power supply -
Additional I/O Power Supply Unit NX-PF0630 A1 B1 O 1 O 1 O IOV IOV IOV IOV IOV IOV IOV IOV IOV I			
verload/low voltage Net supported	erminal connection iagram	Power Supply Unit NX-PF0630 A1 B1 IOV IOV IOV IOV	Two-wire type 0 1 • IOV IOV • IOG IOG Three-wire type 2 3 • IOV IOV •
	verload/low voltage		
	etection	Not supported	

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

	nnection Unit IOG terminal type NX-PC0010					
Jnit name	I/O Power Supply Connection Unit					
Model	NX-PC0010					
External connection erminals	Screwless push-in terminal block (16 terminals)					
lumber of I/O power upply terminals	IOG: 16 terminals					
Current capacity of I/O power supply terminal	4 A/terminal max.					
Dimensions	(W) × 100 (H) 71 ×(D)					
solation method	No-isolation No-isolation					
nsulation 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.					
X Unit power consumption	0.45 W max.					
O current consumption	No consumption					
Weight	65 g max.					
Circuit layout	Terminal block IOG IOG IOG INX Unit power supply + NX Unit power supply - I/O power					
nstallation orientation and restrictions	Installation orientation: Possible in 6 orientations. Restrictions: No restrictions					
Ferminal connection diagram	I/O Power Supply Connection Unit A1 NX-PC0010 B1 IOG					

Jnit name	I/O Power Supply Connection Unit
Model	NX-PC0020
External connection erminals	Screwless push-in terminal block (16 terminals)
Number of I/O power supply terminals	IOV: 16 terminals
Current capacity of I/O bower supply terminal	4 A/terminal max.
Dimensions	12 (W) × 100 (H) 71 × (D)
solation method	No-isolation
solation resistance	20 M Ω 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.
IX Unit power consumption	0.45 W max.
O current consumption	No consumption
Veight	65 g max.
Circuit layout	Terminal block IOV IOV IOV INX Unit power supply + NX Unit power supply - I/O po
nstallation orientation and restrictions	Installation orientation: Possible in 6 orientations. Restrictions: No restrictions
Ferminal connection liagram	I/O Power Supply Connection Unit NX-PC0020 B1 Final Index In

O Power Supply Con	nection 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	IOV: 8 terminals IOG: 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 $M\Omega$ 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 IOS IOG IOG IOG IOG INX Unit power supply + NX bus connector (left) NX Unit power supply - I/O power supply + I/O power supply - I/O			
Installation orientation and restrictions	Installation orientation: Possible in 6 orientations. Restrictions: No restrictions			
Terminal connection diagram	I/O Power Supply Connection Unit NX-PC0030 A1 IOV IOV IOG IOG IOG IOG IOV IOV IOV IOV IOG IOG IOW IOV IOW IOV IOW IOW IOG IOG IOW IOV IOW IOW IOG IOG IOW IO			

Shield Connection Un	nit NX-TBX01				
Unit name	Shield Connection Unit				
Model	NX-TBX01				
External connection terminals	Screwless push-in terminal block (16 terminals)				
Number of shield erminals	14 terminals (The following two terminals are functional ground terminals.)				
Dimensions	12 (W) × 100 (H) 71 × (D)				
solation method	Isolation between the SHLD functional ground terminal, and internal circuit: No-isolation				
nsulation resistance	0 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.				
O current consumption	No consumption				
Weight	65 g max.				
Circuit layout	SHLD terminal block SHLD terminal (Functional ground terminal) NX bus connector (left) NX Unit power supply - I/O power supp				
nstallation orientation and restrictions	Installation orientation: Possible in 6 orientations. Restrictions: No restrictions				
Terminal connection diagram	Shield Connection Unit NX-TBX01 A1 SHLD				
	Ground of 100 Ω = or less				

Version Information

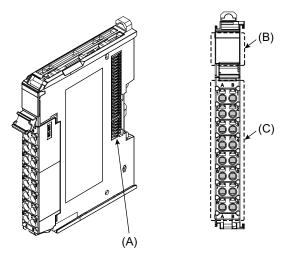
N	(Units	Corresponding unit versions/versions				
Model Unit Version		EtherCAT Coupler Units NX-ECC201/ECC202*	NJ-series CPU Units NJ501-□□□□/NJ301-□□□□	Sysmac Studio		
NX-PD1000				Var 1 00 or higher		
NX-PF0630				Ver.1.06 or higher		
NX-PF0730				Ver.1.08 or higher		
NX-PC0020	Ver.1.0	Ver.1.0 or later	Ver.1.05 or later			
NX-PC0010				Var 1 06 or bigher		
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

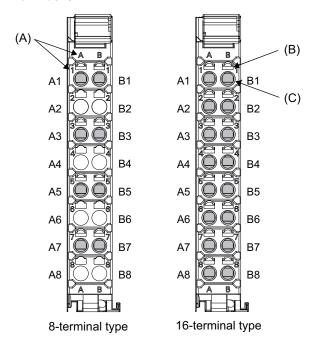
Additional NX Unit Power Supply Unit, Additional I/O Power Supply Unit, I/O Power Supply Connection Unit, and Shield Connection Unit

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.

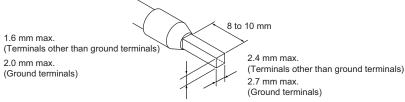
Always use plated one-pin ferrules. Do not use unplated ferrules or two-pin ferrules.

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

Terminal types	Manufacturer	Ferrule model	Applicable wire (mm² (AWG))	Crimping tool	
Terminals other	Phoenix Contact	AI0,34-8	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)	
terriiriais		AI0,5-10			
		AI0,75-8	0.75 (#18)		
		AI0,75-10			
		AI1,0-8	1.0 (#18)		
		AI1,0-10			
		AI1,5-8	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 mm², AWG 26 to 10)	
terriiriais		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.} Some AWG 14 wires exceed 2.0 mm² 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.

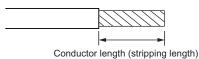


Using Twisted Wires/Solid Wires

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 ² AWG28 to 16	8 to 10 mm
	Greater than 2 A and 4 A or less				Not Possible		
	Greater than 4 A		Not Possible				
Ground terminals *		1	Possible	1	Possible	2.0 mm ²	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.



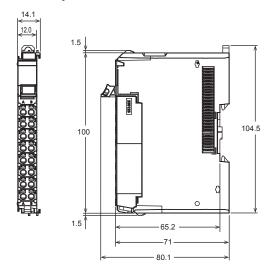
< Additional Information> If more than 2 A will flow on the wires, use plated wires or use ferrules.

Dimensions (Unit: mm)

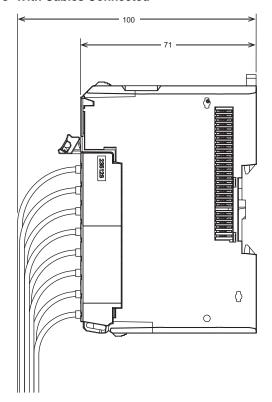
Additional NX Unit Power Supply Unit, Additional I/O Power Supply Unit, I/O Power Supply Connection Unit, and Shield Connection Unit

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-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.

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2015.2

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Mouser Electronics

Authorized Distributor

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Omron:

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



OOO «ЛайфЭлектроникс" "LifeElectronics" LLC

ИНН 7805602321 КПП 780501001 P/C 40702810122510004610 ФАКБ "АБСОЛЮТ БАНК" (ЗАО) в г.Санкт-Петербурге К/С 3010181090000000703 БИК 044030703

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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