

## Powerful. Tough. Future-Proof.

Our NY industrial Box PC has been designed from first principles to be powerful, reliable and scalable, making it ideally suited to visualization, data handling, measuring and controlling. The latest insights in design simplification eliminates faults caused by complexity which, with other unique design features, maximizes uptime and reduces costs. The future will be IT driven: Omron's Industrial PC platform will make you part of it.



NYB1E, NYB27

NYB35,  
NYB2CNYB35,  
NYB2C,  
NYB2A

## Features

- No internal cables to cut faults, maximizes uptime
- Unique simplified thermal design to reduce downtime
- Powerful Intel® Core™ technology for optimized performance
- Industrial CPU's with long availability
- Three Ethernet ports to increase connectivity
- USB3.0 for fast data-transmission
- Optional NY Monitor Link interface for connectivity up to 100 m

CONSULTING DISTRIBUTOR



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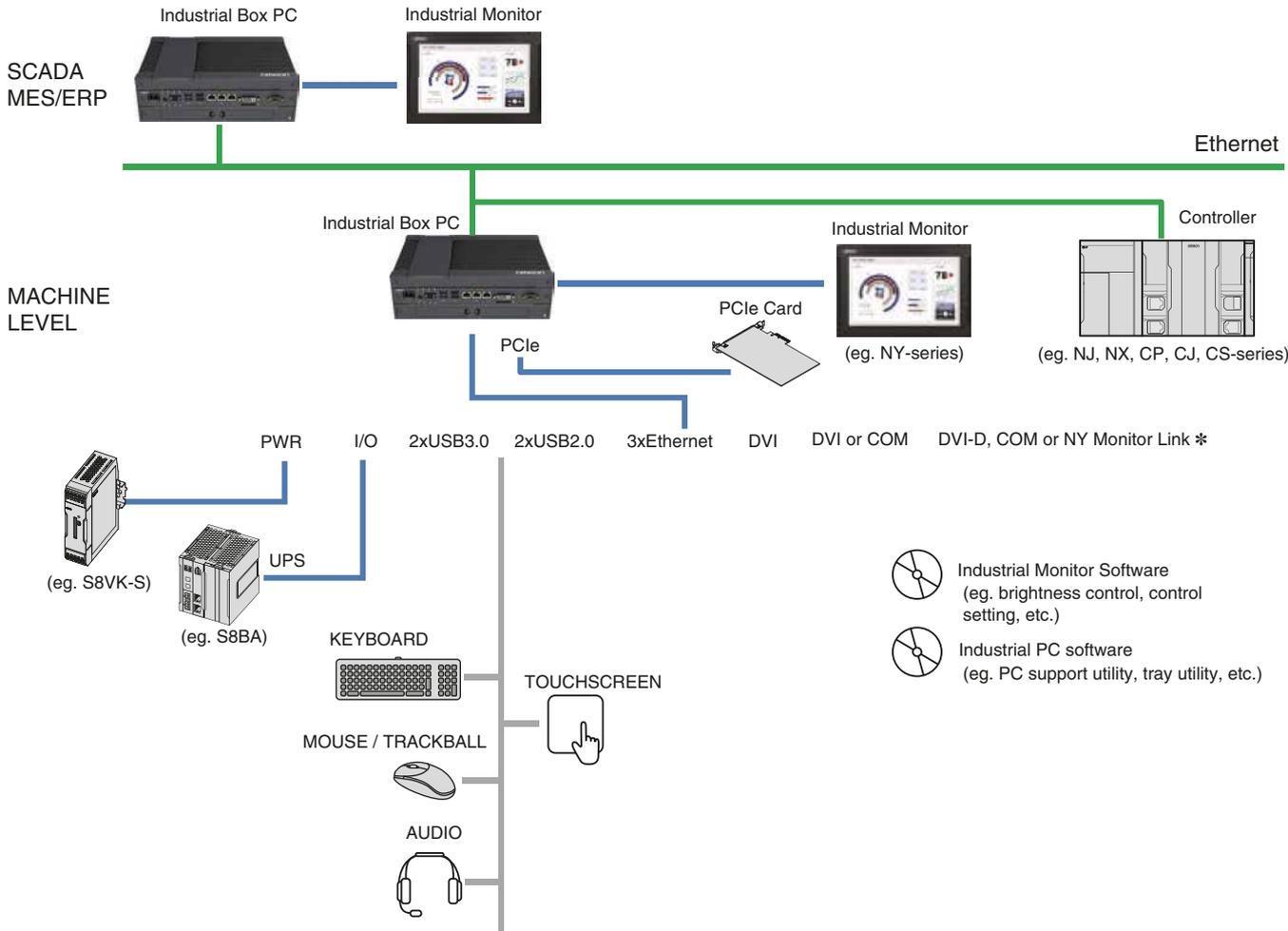
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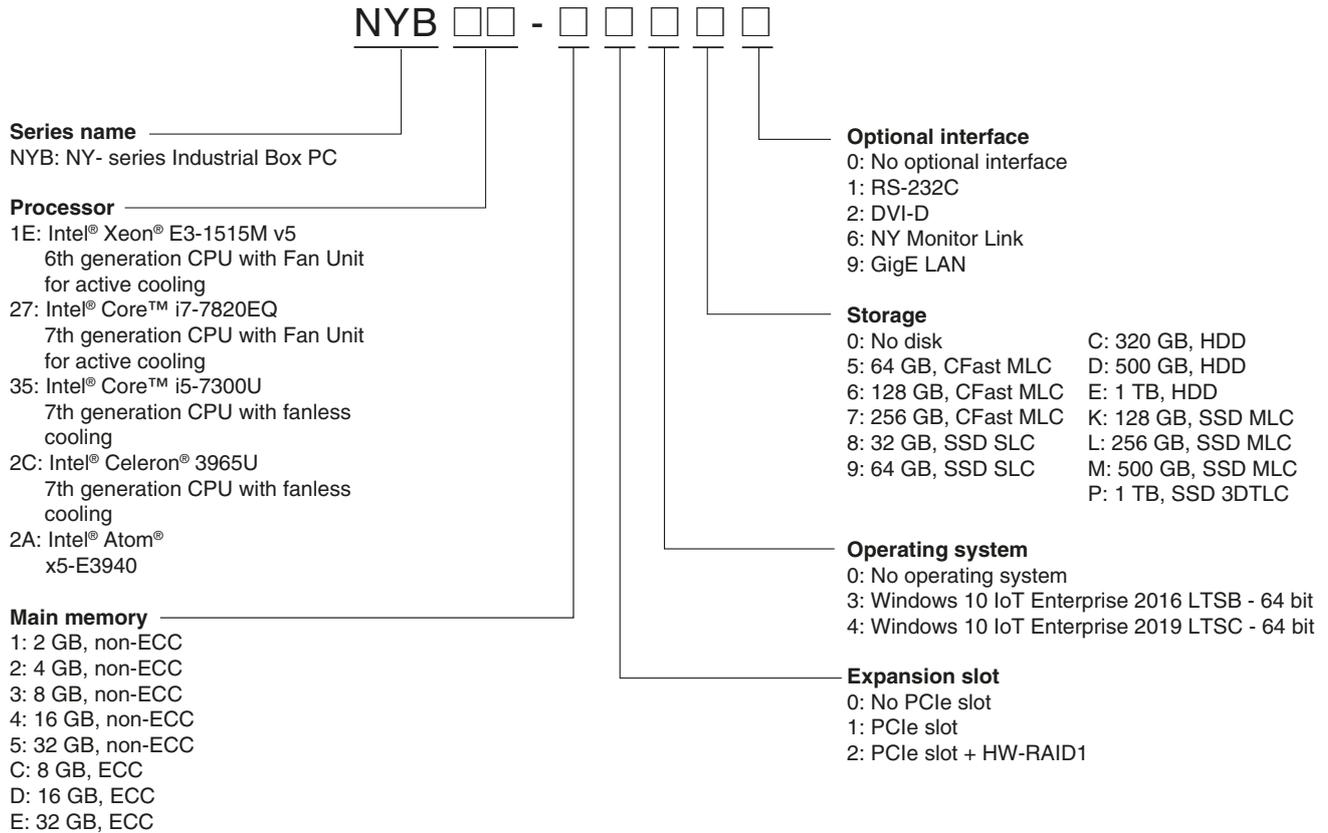
# System Configuration



\* NY Monitor Link option: Connect monitor up to 100 m via Ethernet cable.

# Model Number Structure

The purpose of this model number legend is to provide understanding of the meaning of specifications from the model number. Models are not available for all combinations of code numbers.



## Ordering Information

### NY-series Industrial PC Platform

#### Recommended models

The industrial Box PC has extended configuration possibilities to meet your requirements, below an overview of the most used and recommended models. Selecting one of the models below will bring the benefit of faster delivery times.

In case your preferred model is not listed below, please contact your Omron representative to discuss the possibilities.

Product name	Specifications						Model
	Operating system	CPU type	RAM memory	Storage size	Interface option	PCIe-slot	
Industrial Box PC	Windows 10 IoT Enterprise 2016 LTSB - 64 bit	Intel® Xeon® E3-1515M v5	8GB (non-ECC type)	128 GB SSD type (MLC)	RS-232C	Yes	NYB1E-313K1
			8GB (ECC type)			Yes	NYB1E-C13K1
		Intel® Core™ i5-7300U	8 GB (non-ECC type)	256 GB CFast type (MLC)	No	No	NYB35-30370
				128 GB SSD type (MLC)	RS-232C	Yes	NYB35-313K1
		Intel® Celeron™ 3965U	8 GB (non-ECC type)	256 GB CFast type (MLC)	No	No	NYB2C-30370
				128 GB SSD type (MLC)	RS-232C	Yes	NYB2C-313K1
	Windows 10 IoT Enterprise 2019 LTSC - 64bit	Intel® Atom® x5-E3940	4 GB (non-ECC type)	128 GB CFast type (MLC)	No	No	NYB2A-20460
			8 GB (non-ECC type)	256 GB CFast type (MLC)	No	No	NYB2A-30470
		Intel® Core™ i7-7820EQ	8 GB (non-ECC type)	128 GB SSD type (MLC)	No	No	NYB27-30460
				500 GB SSD type (MLC)	RS-232C	Yes	NYB27-314M1
				500 GB SSD type (MLC) Hard RAID	RS-232C	Yes	NYB27-324M1
				1 TB SSD type (3DTLC)	RS-232C	Yes	NYB27-314P1

## Accessories

### Optional Hardware

Product name	Specifications	Model
Mounting Brackets *1	Book mount	NY000-AB00 NY000-AB02 NY000-AB04 NY000-AB05
	Wall mount	NY000-AB01
SD Memory Cards	Card type: SD Card Capacity: 2 GB Format: FAT16	HMC-SD291
	Card type: SDHC Card Capacity: 4 GB Format: FAT32	HMC-SD492
	Card type: SDHC Card Capacity: 16 GB Format: FAT32	HMC-SD1A1
USB Flash Drives	Capacity: 2 GB	FZ-MEM2G
	Capacity: 8 GB	FZ-MEM8G
Storage Devices	Storage type: HDD, Capacity: 320 GB	NY000-AH00
	Storage type: HDD, Capacity: 500 GB	NY000-AH01
	Storage type: HDD, Capacity: 1 TB	NY000-AH02
	Storage type: SSD SLC, Capacity: 32 GB	NY000-AS00
	Storage type: SSD SLC (Apacer), Capacity: 64 GB	NY000-AS01
	Storage type: SSD SLC (Hagiwara), Capacity: 64 GB	NY000-AS03
	Storage type: SSD MLC (Innodisk), Capacity: 128 GB	NY000-AS04
	Storage type: SSD MLC, Capacity: 500 GB	NY000-AS05
	Storage type: SSD 3DTLC, Capacity: 1 TB	NY000-AS07
	Storage type: SSD MLC (Innodisk), Capacity: 256 GB	NY000-AS08
	Storage type: CFast MLC, Capacity: 64 GB	NY000-AT00
	Storage type: CFast MLC, Capacity: 128 GB	NY000-AT01
Storage type: CFast MLC, Capacity: 256 GB	NY000-AT02	
DVI Cables	Cable length: 2 m Supports DVI-D Minimum bend radius: 36 mm	NY000-AC00 2M
	Cable length: 5 m Supports DVI-D Minimum bend radius: 36 mm	NY000-AC00 5M
Industrial Monitor	<ul style="list-style-type: none"> <li>LCD touchscreen</li> <li>Multi-touch functionality</li> <li>Supply voltage: 24 VDC</li> <li>2 USB Type-A Connectors</li> <li>Programmable brightness control</li> <li>Standard and 100 m cable models are available.</li> </ul>	NYM1□W-C10□□
Power Supply	<ul style="list-style-type: none"> <li>Output voltage: 24 VDC</li> <li>Push-In Plus terminal blocks</li> </ul>	S8VK-G□□□24
	<ul style="list-style-type: none"> <li>Output voltage: 24 VDC</li> <li>EtherNet/IP, Modbus TCP-Compatible</li> </ul>	S8VK-X□□□24A-EIP
	<ul style="list-style-type: none"> <li>Output voltage: 24 VDC</li> <li>Compact</li> </ul>	S8VK-S□□□24
	<ul style="list-style-type: none"> <li>Output voltage: 24 VDC</li> <li>Three-phase 200-V Power Supplies</li> </ul>	S8VK-WA□□□24
UPS *2	Output voltage during backup operation: 24 VDC ± 5%	S8BA
UPS Communication Cable	Cable length: 2 m Signals for <ul style="list-style-type: none"> <li>Signal output (BL, TR, BU, WB)</li> <li>Remote ON/OFF input</li> <li>UPS Stop Signal input (BS)</li> </ul>	S8BW-C02

**Note:** Orders for NY000-AS02 are no longer accepted, as of November 30, 2018.

\*1. Select the required type:

- NY000-AB00: for NYB1E, NYB27-□1, NYB27-□2
- NY000-AB02: for NYB35-□1, NYB35-□2, NYB2C-□1
- NY000-AB04: for NYB35-□0, NYB2C-□0, NYB2A-□0
- NY000-AB05: for NYB27-□0

\*2. Revision number 04 or higher.



## Soft-NA

Product name	Specifications	Number of licenses	Media	Model
Soft-NA	The Soft-NA is software that displays information on FA manufacturing sites while providing safety, reliability, and maintainability as an industrial display on which operations can be performed as necessary. The Soft-NA runs on the following OS: Windows 10 Pro Version 1903 or later 64 bit	– (Media only)	DVD	NA-RTSM
		1 license	USB dongle	NA-RTL01
		3 licenses		NA-RTL03
		10 licenses		NA-RTL10

### System Requirements

Item		Requirement
OS		Windows 10 Pro Version 1903 or later 64 bit
Processor		Intel Atom® x5-E3940 equivalent or higher processor
RAM		4 GB or more
Free space in the hard drive necessary for installation		1 GB or more
Optical disk drive		DVD-ROM drive
Communication port	USB	USB2.0 Type-A x 2 *1
	LAN	Ethernet x 2 *1

\*1. Since one port is for project transfer, it is not required unless the corresponding path is used.

**Note:** Refer to NA-series catalog (Cat. No. V413) for the system configuration of Soft-NA.

# General Specifications

## Performance Specifications

Item			NYB1E- □1□□□ NYB1E- □2□□□	NYB27- □1□□□ NYB27- □2□□□	NYB35- □1□□□ NYB35- □2□□□	NYB2C- □1□□□	NYB27- □0□□□	NYB35- □0□□□	NYB2C- □0□□□	NYB2A- □0□□□			
Main system	CPU	CPU type	Intel® Xeon® E3-1515M v5	Intel® Core™ i7-7820EQ	Intel® Core™ i5-7300U	Intel® Celeron® 3965U	Intel® Core™ i7-7820EQ	Intel® Core™ i5-7300U	Intel® Celeron® 3965U	Intel® Atom® x5-E3940			
		Cores / Threads	4 / 8	4 / 8	2 / 4	2 / 2	4 / 8	2 / 4	2 / 2	4 / 4			
		CPU base frequency	2.8 GHz	3.0 GHz	2.6 GHz	2.2 GHz	3.0 GHz	2.6 GHz	2.2 GHz	1.6 GHz			
		Maximum turbo frequency	3.7 GHz	3.7 GHz	3.5 GHz	–	3.7 GHz	3.5 GHz	–	1.8 GHz			
		Cache	8 MB	8 MB	3 MB	2 MB	8 MB	3 MB	2 MB	2 MB			
		Cooling details	Requires active cooling (fan)			Passive cooling (fanless)		Requires active cooling (fan)	Passive cooling (fanless)				
	Intel CPU category	Industrial (100% operation minimal 10yr)											
	Memory	Memory size *1	8, 16 or 32 GB	8, 16 or 32 GB	4 or 8 GB	4 or 8 GB	8, 16 or 32 GB	8 or 16 GB	4 or 8 GB	2, 4 or 8 GB			
		Memory type	DDR4 (ECC is available)		DDR4 (non ECC)					DDR3L (non ECC)			
	Trusted platform module (TPM)		Available										
Graphics controller		Intel® Iris™ Pro Graphics. Up to two independent screens.		Intel® HD Graphics. Up to two independent screens.									
		Intel® Iris™ Pro Graphics P580	Intel® HD Graphics 630	Intel® HD Graphics 620	Intel® HD Graphics 610	Intel® HD Graphics 630	Intel® HD Graphics 620	Intel® HD Graphics 610	Intel® HD Graphics 500				
Watchdog		Yes											
Operating system	Windows OS		Windows 10 IoT Enterprise 2016 LTSC - 64 bit	Windows 10 IoT Enterprise 2019 LTSC - 64 bit	Windows 10 IoT Enterprise 2016 LTSC - 64 bit		Windows 10 IoT Enterprise 2019 LTSC - 64 bit	Windows 10 IoT Enterprise 2016 LTSC - 64 bit		Windows 10 IoT Enterprise 2019 LTSC - 64 bit			
Storage devices	Drives *1	Hard Disk Drive	• 320 GB, 500 GB, 1 TB Serial ATA 3.0		• 500 GB, 1 TB Serial ATA 3.0		• 320 GB Serial ATA 3.0		N/A				
			• 64 GB Serial ATA 3.1		• 64 GB Serial ATA 3.1		N/A						
		Solid State Drive	• 128 GB, 500 GB Serial ATA 3.1		• 128 GB, 256 GB, 500 GB Serial ATA 3.1		• 128 GB Serial ATA 3.1		• 64 GB, 128 GB, 256 GB Serial ATA 3.1, CFast				
			• 320 GB, 500 GB, 1 TB Serial ATA 3.0		• 500 GB, 1 TB Serial ATA 3.0		• 320 GB Serial ATA 3.0		N/A				
	3DTLC type		N/A	1 TB	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
Drive bays (HDD/SSD) *2		2		2		2		2		CFast slot	CFast slot	CFast slot	CFast slot
Hardware-RAID support		NYB1E-□2□□□ only		NYB27-□2□□□ only		NYB35-□2□□□ only		N/A		N/A	N/A	N/A	N/A
Connectors	Power connector		24 VDC										
	I/O connector		2 inputs (UPS signal and power OFF control) and 1 output (Industrial Box PC power state)										
	USB2.0 Type-A	Number of ports	2										
		Maximum current	500 mA										
		Maximum cable length	5 m										
	USB3.0 Type-A	Number of ports	2										
		Maximum current	900 mA										
		Maximum cable length	3 m										
	Ethernet connectors	Number of ports	3										
		Physical layer	10BASE-T, 100BASE-TX or 1000BASE-T										
DVI-I connector	Video interface	Digital or analog				Digital only							
	Resolution	Up to 1,920 x 1,200 pixels at 60 Hz											
	Maximum DVI cable length	Dependent upon connected monitor type and resolution											

Item		NYB1E- □1□□□ NYB1E- □2□□□	NYB27- □1□□□ NYB27- □2□□□	NYB35- □1□□□ NYB35- □2□□□	NYB2C- □1□□□	NYB27- □0□□□	NYB35- □0□□□	NYB2C- □0□□□	NYB2A- □0□□□		
Optional connector (select one per system)	RS-232C	Standard DSUB9 connector (Non-Isolated)				N/A					
	DVI-D	Video interface	Digital only				N/A				
		Resolution	Up to 1,920 x 1,200 pixels at 60 Hz				N/A				
		Maximum DVI cable length	Dependent upon connected monitor type and resolution				N/A				
	NY Monitor Link	Video interface	Digital only								
		Resolution	1,280 x 800 pixels at 60 Hz								
		Connector type	RJ45								
		Cable shielding, type and max. length	S/FTP, Cat.6A, 100 m								
	GigE LAN	Physical layer	10BASE-T, 100BASE-TX or 1000BASE-T		-						
PCIe Card Slot	Configuration	X4 (4 lanes) up to Gen 3		X2 (2 lanes) up to Gen 3		N/A					
	Card height	Standard height cards, 4.20 inches (106.7 mm) *3				N/A					
	Card length	Half length cards, 6.6 inches (167.65 mm)				N/A					
Battery	Model	CJ1W-BAT01		Non replaceable battery		CJ1W-BAT01		Non replaceable battery			
	Service life	5 years at 25°C		10 years at 40°C *4		5 years at 25°C		10 years at 40°C *4			
Fan unit	Model	NY000-AF00		No fan unit		NY000-AF00		No fan unit			
	Service life	70,000 hours of continuous operation at 40°C with 15% to 65% relative humidity		-		70,000 hours of continuous operation at 40°C with 15% to 65% relative humidity		-			
LED		PWR, ERR, HDD, RUN									

\*1. Not all combinations are possible or standard available. Please contact your Omron representative to discuss the possibilities.

\*2. Depending on the model one or two drives are supported.

\*3. Low profile cards, 2.536 inches (64.4 mm) are not supported.

\*4. Battery service life highly depend on circuntance and is in normal operation 20yr longer

## Electrical Specifications

Item	NYB1E- □□□□□	NYB27- □1□□□ NYB27- □2□□□	NYB25- □□□□□	NYB1C- □□□□□	NYB35- □1□□□ NYB35- □2□□□	NYB2C- □1□□□	NYB27- □0□□□	NYB35- □0□□□	NYB2C- □0□□□	NYB2A- □0□□□
<b>CPU type</b>	Intel® Xeon® E3-1515M v5	Intel® Core™ i7-7820EQ CPU	Intel® Core™ i7-4700EQ CPU	Intel® Celeron® 2980U CPU	Intel® Core™ i5-7300U	Intel® Celeron® 3965U	Intel® Core™ i7-7820EQ	Intel® Core™ i5-7300U	Intel® Celeron® 3965U	Intel® Atom® x5-E3940
<b>Rated power supply voltage</b>	24 VDC, non-isolated									
<b>Allowable power supply voltage range</b>	20.4 to 28.8 VDC									
<b>Grounding method</b>	Ground to less than 100 Ω									
<b>Inrush current</b>	At 24 VDC: 12 A / 6 ms max. for cold start at room temperature									
<b>Overvoltage category</b>	Meets IEC 61010-2-201: Category II									
<b>EMC immunity level</b>	IEC 61131-2: Zone B									
<b>RTC accuracy</b>	At ambient temperature of 55°C: -3.5 to +0.5 min error per month At ambient temperature of 25°C: -1.5 to +1.5 min error per month At ambient temperature of 0°C: -3 to +1 min error per month									
<b>Power button life</b>	100,000 operations									
<b>Battery life</b>	5 years at 25°C (for battery CJ1W-BAT01)				10 years at 40°C		5 years at 25°C (for battery CJ1W-BAT01)		10 years at 40°C	
<b>Fan life</b>	8 years of continuous operation at 40°C		-	-	-	-	8 years of continuous operation at 40°C		-	-
<b>Power consumption *</b>	-									
<b>Maximum power consumption including drives and expansions</b>	121 W	121 W	75 W	66 W	69 W	50 W	101 W	61 W	42 W	41 W
<b>Maximum power consumption excluding drives and expansions</b>	86 W	86 W	52 W	45 W	46 W	27 W	86 W	46 W	27 W	26 W
<b>Drives</b>	-									
HDD 320 GB	2 W						-			
HDD 500 GB	2 W						-			
HDD 1 TB	2 W						-			
SSD SLC 32 GB	2 W						-			
SSD SLC 64 GB	2 W						-			
SSD MLC 128 GB	2 W						-			
SSD MLC 500 GB	3 W		-							
SSD 3DTLC 1 TB	-	3 W	-							
CFast MLC 64 GB	-						1 W			
CFast MLC 128 GB	-						1 W			
CFast MLC 256 GB	-						1 W			
<b>Expansions</b>	-									
USB	14 W max. ((2 x 500 mA at 5 V) + (2 x 900 mA at 5 V))									
PCIe	15 W max.	15 W max.	5 W max.	5 W max.	5 W max.	5 W max.	-			

**Note:** Refer to the *Industrial Box PC User's Manual (W553)* for detail.

\* The total power consumption is the sum of the power consumption of all items that are installed in your Industrial Box PC.

To guarantee S8BA UPS operation in combination with our IPC, the specified combination of UPS and power-supply must be used.

Item		NYB1E / NYB27	NYB35 / NYB2C / NYB27-□□ / NYB2A
<b>Minimum power requirements</b>	<b>Power supply</b>	240 W	120 W
	<b>UPS</b>	240 W	120 W

## Components and functions

The intent behind our IPC platform is to empower engineers to become unstoppable in developing machines and factories that are better, faster and safer by giving them the freedom and flexibility to explore the opportunities provided by modern IT. In line with Omron's traditional quality standards, the Industrial Box PC is designed to meet the demands of industrial users for maximum robustness and reliability. All maintenance sensitive products (HDD/SDD, fan, battery, and PCIe Card) can be easily reached from the outside of the system. No need to open the electronics compartment, less risk on failure.

### Optional connection

RS-232C, DVI-D, NY Monitor Link or GigE LAN.  
 NY Monitor Link allows high speed video and data communication over 100 m via Ethernet cable.

### DVI-D video

Digital, up to 1,920 x 1,200 pixels at 60 Hz  
 (Intel® Core™ i7: DVI-I (Digital or analog))

### 3x High speed Ethernet

10BASE-T, 100BASE-TX or 1000BASE-T

### 2x USB2.0

500 mA maximum current  
 Maximum cable length: 5 m

### 2x USB3.0

900 mA maximum current  
 Maximum cable length: 3 m

### Indication LEDs

### Robust Mechanics

Full metal housing with black industrial coating

### Industrial Design

Winner of the 2016 Red Dot design award\* for excellent industrial design



### 1x PCIe slot

Half Length Cards 6.6 inches  
 Standard Height Cards 4.2 inches  
 Easy PCIe mounting drawer

Intel® Xeon®, Intel® Core™ i7: X4 (4 lanes)  
 Other CPUs: X1 (1 lane)

### 1x SD Memory Card slot

SDHC type (SD 2.0 specification)  
 Up to 32 GB capacity

### 1x CFast Card slot

### Storage

2.5 inch Solid State Drive (SSD) or Hard Disk Drive (HDD), 7 mm height

### I/O (UPS connection)

Input:  
 Power sequence signal  
 Output:  
 SPST-NO contact configuration  
 24 VDC at 2 A switching capacity (resistive load)

### Power switch

### 24 VDC Power

24 VDC non isolated  
 Lockable power connector

**Note:** Not all combinations are possible or standard available. Please contact your Omron representative to discuss the possibilities.

\* The Red Dot design award has been presented by the Design Zentrum Nordrhein Westfalen since 1955. It is one of the best-respected design competitions in the world, along with the iF award (Germany) and IDEA (the United States).

## Environmental Specifications

Item	Specifications	
Operation environment	Ambient operating temperature *1	0 to 55°C
	Ambient storage temperature *1	-20 to 70°C
	Ambient operating humidity *1	10% to 90% with no condensation
	Ambient storage humidity *1	10% to 90% with no condensation
	Operating atmosphere	No corrosive gases
	Altitude	2,000 m max.
	Noise resistance (during operation)	Conforms to IEC61000-4-4, 2kV (power lines)
	Vibration resistance (during operation)	Conforms to IEC 60068-2-6. For a product with an SSD: 5 to 8.4 Hz with 3.5 mm single amplitude and 8.4 to 150 Hz with 9.8 m/s <sup>2</sup> for 10 times each in X, Y and Z directions. For a product with a HDD the vibration resistance depends on the mounting orientation *2.
	Shock resistance (during operation)	Conforms to IEC 60068-2-27. 147 m/s <sup>2</sup> , 3 times in each X, Y and Z directions
	Installation method	Book mount, Wall mount
Pollution degree	2 or less: Meets IEC 61010-2-201.	
Applicable standards *3	EU Directives: EMC Directive 2014/30/EU (EN 61131-2) and RoHS Directive KC Registration, RCM, cULus, EAC	

\*1. The allowed ambient operating temperature and ambient humidity depend on product type, CPU type, mounting orientation, and storage device type.  
\*2. Vibration resistance depends on the Industrial Box PC's mounting orientation and storage device type:

Mounting orientation	SSD or CFast Card	HDD
Book	9.8 m/s <sup>2</sup>	2.5 m/s <sup>2</sup>
Wall		4.9 m/s <sup>2</sup>

\*3. Refer to the OMRON website ([www.ia.omron.com](http://www.ia.omron.com)) or contact your OMRON representative for the most recent applicable standards for each model.

## Storage Device Specifications

Item	Specifications													
Model	NY000-AS00	NY000-AS01	NY000-AS03	NY000-AS04	NY000-AS05	NY000-AS07	NY000-AS08	NY000-AH00	NY000-AH01	NY000-AH02	NY000-AT00	NY000-AT01	NY000-AT02	
Capacity	32 GB	64 GB	64 GB	128 GB	500 GB	1 TB	256 GB	320 GB	500 GB	1 TB	64 GB	128 GB	256 GB	
Type	SSD (SLC)		SSD (SLC)	SSD (MLC)	SSD (MLC)	SSD (3DTLC)	SSD (MLC)	HDD	HDD	HDD	CFast (MLC)	CFast (MLC)	CFast (MLC)	
S.M.A.R.T. support	Yes													
Rotation speed	-	-	-	-	-	-	-	5,400 r/min	-	-	-	-	-	
Interface	Serial ATA 3.1							Serial ATA 3.0			Serial ATA 3.1			
Sustained standard read speed	Up to 160 MB/s	Up to 160 MB/s	Up to 500 MB/s	Up to 530 MB/s	Up to 415 MB/s	Up to 550 MB/s	Up to 530 MB/s	-	-	-	Up to 530 MB/s	Up to 530 MB/s	Up to 530 MB/s	
Sustained standard write speed	Up to 145 MB/s	Up to 150 MB/s	Up to 370 MB/s	Up to 190 MB/s	Up to 200 MB/s	Up to 340 MB/s	Up to 210 MB/s	-	-	-	Up to 100 MB/s	Up to 190 MB/s	Up to 210 MB/s	
Operating temperature	0 to 70°C							5 to 55°C	5 to 55°C	0 to 60°C	-40 to 85°C			
Operating humidity	10% to 95% (with no condensation)		10% to 85% (with no condensation)	10% to 95% (with no condensation)				8% to 90% (with no condensation)			10% to 95% (with no condensation)			
Storage temperature	-40 to 100°C		-45 to 90°C	-55 to 95°C				-40 to 65°C			-55 to 95°C			
Storage humidity	10% to 95% (with no condensation)							8% to 90% (with no condensation)		5% to 95% (with no condensation)	10% to 95% (with no condensation)			
Life	1,500 TB written	3,000 TB written	1900 TB written	208 TB written	154 TB written	1000 TB written	416 TB written	Approximately 5 years or 20,000 powered-ON hours (whichever comes first) under the following conditions: • 25°C at 101.3 kPa • Less than 333 powered-ON hours/month *1 • Less than 20% operation while powered-ON *2 • Less than 1.30 x 10 <sup>6</sup> seeks/month		Average Annualized Failure Rate (AFR): 0.50% Under the following conditions: • Case Temperature 40°C • Power on Hours (POH) ≤ 3120		125 TB written	208 TB written	417 TB written

Note: Orders for NY000-AS02 are no longer accepted, as of November 30, 2018.

\*1. Powered-ON hours include sleep and standby modes.

\*2. Operation includes seeking, writing, and reading functions.

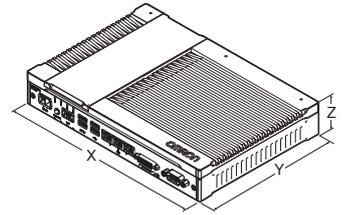
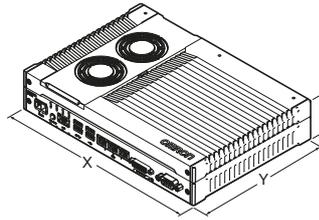
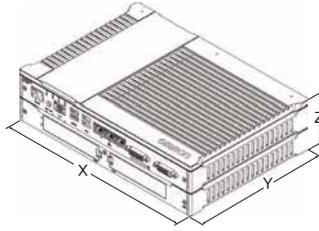
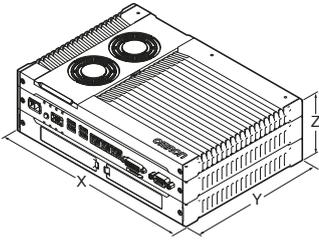
# Dimensions

NYB1E-□□□□□  
 NYB27-□1□□□  
 NYB27-□2□□□

NYB35-□1□□□  
 NYB35-□2□□□  
 NYB2C-□1□□□

NYB27-□0□□□

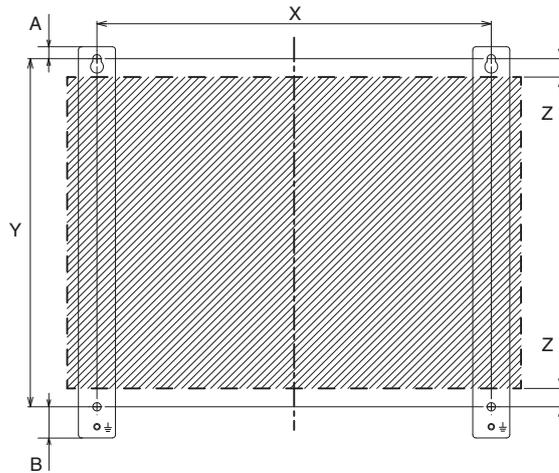
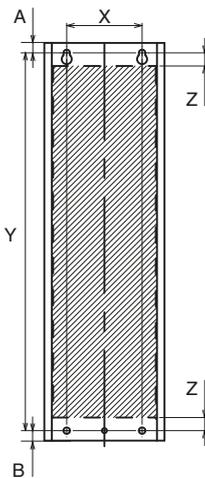
NYB35-□0□□□  
 NYB2C-□0□□□  
 NYB2A-□0□□□



Item	Specifications			
	Box			
	NYB1E-□□□□□ NYB27-□1□□□ NYB27-□2□□□	NYB35-□1□□□ NYB35-□2□□□ NYB2C-□1□□□	NYB27-□0□□□	NYB35-□0□□□ NYB2C-□0□□□ NYB2A-□0□□□
Dimensions	Width X = 282 mm Depth Y = 195 mm. Y = 200 mm including the DVI connectors. Height Z = 88.75 mm	Width X = 282 mm Depth Y = 195 mm. Y = 200 mm including the DVI connectors. Height Z = 73 mm	Width X = 282 mm Depth Y = 195 mm. Y = 200 mm including the DVI connectors. Height Z = 56 mm	Width X = 282 mm Depth Y = 195 mm. Y = 200 mm including the DVI connectors. Height Z = 41 mm
Weight	3.8 kg	3.0 kg	2.6 kg	2.1 kg

## Bracket Specifications

The metal mounting brackets mount your Industrial Box PC and they are the connection for the functional ground. Use metal screws with a diameter of 4 mm or 5 mm to mount the brackets. Mounting screw locations for book mount and wall mount orientation:



(Unit: mm)

Model	Bracket type	Bracket ID	Drill Specifications			Product Dimensions			
			Hole Distance X	Hole Distance Y	Distance Z	Bracket Width	Bracket Height	Top to hole A	Top to hole B
All	Wall mount	NY000-AB01	245 mm	218 mm	12 mm	23 mm	245 mm	7.5 mm	19.5 mm
NYB1E NYB27-□1□□□ NYB27-□2□□□	Book mount	NY000-AB00	60 mm	303 mm	11 mm	96 mm	319 mm	8 mm	8 mm
NYB35-□1□□□ NYB35-□2□□□ NYB2C-□1□□□	Book mount	NY000-AB02	50 mm	303 mm	11 mm	80 mm	319 mm	8 mm	8 mm
NYB35-□0□□□ NYB2C-□0□□□	Book mount	NY000-AB04	N/A	298 mm	11 mm	47 mm	339 mm	8 mm	28 mm
NYB27-□0□□□	Book mount	NY000-AB05	25 mm	303 mm	11 mm	63 mm	339 mm	8 mm	28 mm

## Recommended Related Products

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**Industrial Monitor  
NY-series**

The Industrial Monitor is of key importance at the interface between operator and system. The Industrial Monitor is efficient, effective and highly visible with an attractive design.



**Industrial Panel PC  
NY-series**

The Industrial Panel PC intelligently combines the functionality of the Industrial Box PC and Industrial Monitor. No cables are used between the two components, which ensures optimal signal distribution and reliable operation in industrial environments.



**UPS  
S8BA-series**

The OMRON S8BA UPS protects the Industrial Box PC from power failures, voltage variations and instantaneous voltage drops.

## Related Manuals

The following manuals are related. Use these manuals for reference.

Manual name	Cat. No.	Model numbers	Application	Description
Industrial Box PC User's Manual	W553	NYB1E-□1□□□ NYB27-□□□□□ NYB35-□□□□□ NYB2C-□□□□□	Learning all basic information about the Industrial Box PC. This includes introductory information with features, hardware overview, software overview, specifications, mounting, wiring, connecting, operating and maintaining the Industrial Box PC.	An introduction to the Industrial Box PC is provided along with the following information: <ul style="list-style-type: none"> <li>• Overview</li> <li>• Hardware</li> <li>• Software</li> <li>• Specifications</li> <li>• Installation</li> <li>• Operating Procedures</li> <li>• Maintenance</li> </ul>
NY-Series Industrial Box-PC without OS User's Manual	W586	NYB1E-□1□□□ NYB27-□□□□□ NYB35-□□0□□ NYB2C-□□0□□	Learning about the Omron Industrial PC functionality without an installed Operating System	An introduction to the Industrial Box PC is provided along with the following information: <ul style="list-style-type: none"> <li>• Overview</li> <li>• Hardware</li> <li>• Software</li> <li>• Specifications</li> <li>• Installation</li> <li>• Operating Procedures</li> <li>• Maintenance</li> </ul>
Industrial Monitor User's Manual	W554	NYM19W-C1□□□ NYM15W-C10□□ NYM12W-C10□□	Learning all basic information about the Industrial Monitor. This includes introductory information with features, hardware overview, specifications, mounting, wiring, connecting, operating and maintaining the Industrial Monitor.	An introduction to the Industrial Monitor is provided along with the following information: <ul style="list-style-type: none"> <li>• Overview</li> <li>• Hardware</li> <li>• Software</li> <li>• Specifications</li> <li>• Installation</li> <li>• Operating Procedures</li> <li>• Maintenance</li> </ul>
Industrial Panel PC User's Manual	W555	NYP35-□□□□□-15WC100□ NYP35-□□□□□-12WC100□ NYP2C-□□□□□-15WC100□ NYP2C-□□□□□-12WC100□ NYP35-□0□□□-19WC1□0□ NYP2C-□0□□□-19WC1□0□	Learning all basic information about the Industrial Panel PC. This includes introductory information with features, hardware overview, software overview, specifications, mounting, wiring, connecting, operating and maintaining the Industrial Panel PC.	An introduction to the Industrial Panel PC is provided along with the following information: <ul style="list-style-type: none"> <li>• Overview</li> <li>• Hardware</li> <li>• Software</li> <li>• Specifications</li> <li>• Installation</li> <li>• Operating Procedures</li> <li>• Maintenance</li> </ul>
NY-Series Industrial Panel-PC without OS User's Manual	W587	NYP35-□□0□□-15WC100□ NYP35-□□0□□-12WC100□ NYP2C-□□0□□-15WC100□ NYP2C-□□0□□-12WC100□ NYP35-□0□□□-19WC1□0□ NYP2C-□0□□□-19WC1□0□	Learning about the Omron Industrial PC functionality without an installed Operating System	An introduction to the Industrial Panel PC is provided along with the following information: <ul style="list-style-type: none"> <li>• Overview</li> <li>• Hardware</li> <li>• Software</li> <li>• Specifications</li> <li>• Installation</li> <li>• Operating Procedures</li> <li>• Maintenance</li> </ul>
UPS S8BA User's Manual	U702	S8BA	Learning the information that is necessary to use the Uninterruptible Power Supply (UPS) Unit.	An introduction to the UPS is provided along with the following information: <ul style="list-style-type: none"> <li>• Overview</li> <li>• Preparation</li> <li>• Installation and Connection</li> <li>• Check and Start Operation</li> <li>• Maintenance and Inspection</li> <li>• Shutdown Processing</li> <li>• I/O Signal Functions</li> <li>• Troubleshooting</li> </ul>
NY-series Operating Systems and Software Utilities Manual	W616	NYB□□-□□□ NYP□□-□□□	Learning all software related information about the Industrial Box PC. This includes introductory information, installation, operating procedures and maintenance. Mainly software information is provided.	An introduction to the Box PC is provided along with the following information: <ul style="list-style-type: none"> <li>• Overview</li> <li>• Software</li> <li>• Specifications</li> <li>• Installation</li> <li>• Operating Procedures</li> <li>• Maintenance</li> </ul>

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