NYB

CSM NYB DS E 3 11

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.







NYB35, NYB2C



NYB35, NYB2C, NYB2A

Features

- No internal cables to cut faults, maximizes uptime
- Unique simplified thermal design to reduce downtime
- Powerful Intel® CoreTM technology for optimized performance
- Three Ethernet ports to increase connectivity
- USB3.0 for fast data-transmission
- Optional NY Monitor Link interface for connectivity up to 100 m
- Free choice of drive technology: HDD, SSD, CFast and built-in SD card slot

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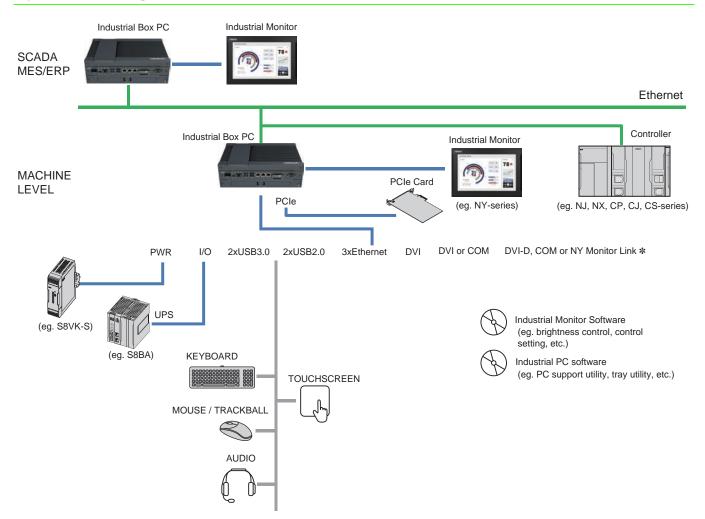
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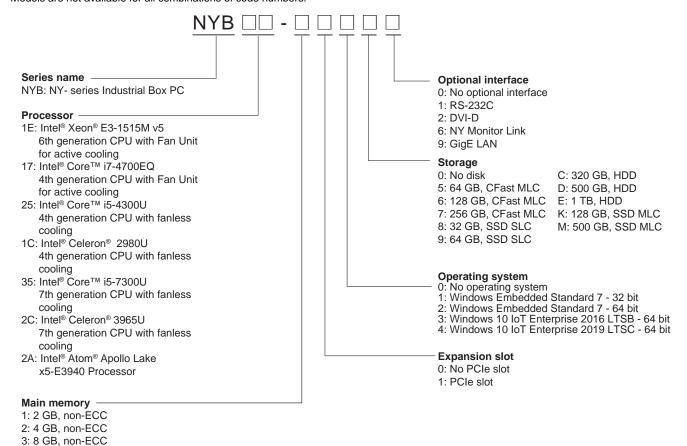
System Configuration



*NY Monitor Link option: Connect monitor up to 100 m via standard 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

4: 16 GB, non-ECC C: 8 GB, ECC D: 16 GB, ECC

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.

Draduct name			Specification	ons			Model
Product name	Operating system	CPU type	RAM memory Storage size		Interface option	PCIe-slot	Wodei
		Intel® Xeon®	8GB (non-ECC type)	128 GB SSD type		Yes	NYB1E-313K1
		E3-1515M v5	8GB (ECC type)	(MLC)	RS-232C	Yes	NYB1E-C13K1
				128 GB SSD type (MLC)	RS-232C	Yes	NYB17-313K1
	Windows 10 IoT Enterprise 2016 LTSB - 64 bit	Intel [®] Core [™] i7-4700EQ	8 GB (non-ECC type)	320 GB HDD type	RS-232C	Yes	NYB17-313C1
				64 GB SSD type (SLC)	RS-232C	Yes	NYB17-31391
Industrial Box PC		Intel® Core™ i5-7300U Intel® Celeron™	8 GB (non-ECC type) 4 GB (non-ECC type)	256 GB CFast type (MLC)	No	No	NYB35-30370
				128 GB SSD type (MLC)	RS-232C	Yes	NYB35-313K1
				256 GB CFast type (MLC)	No	No	NYB2C-20370
		3965U		128 GB SSD type (MLC)	RS-232C	Yes	NYB2C-213K1
	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
		Processor	8 GB (non-ECC type)	256 GB CFast type (MLC)	No	No	NYB2A-30470

Accessories

Optional Hardware

Product name	Specifications	Model
Mounting Brackets * 1	Book mount	NY000-AB00 NY000-AB02 NY000-AB04
	Wall mount	NY000-AB01
SD Mamary Carda	Card type: SD Card Capacity: 2 GB Format: FAT16	HMC-SD291
SD Memory Cards	Card type: SDHC Card Capacity: 4 GB Format: FAT32	HMC-SD491
USB Flash Drives	Capacity: 2 GB	FZ-MEM2G
USB Flasii Drives	Capacity: 8 GB	FZ-MEM8G
	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 Devices *2	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: 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
USB Type-A to USB Type-B	Cable length: 2 m USB 2.0 Minimum bend radius: 25 mm	FH-VUAB 2M
Cables	Cable length: 5 m USB 2.0 Minimum bend radius: 25 mm	FH-VUAB 5M
DW O-LL-	Cable length: 2 m Supports DVI-D Minimum bend radius: 36 mm	NY000-AC00 2M
DVI Cables	Cable length: 5 m Supports DVI-D Minimum bend radius: 36 mm	NY000-AC00 5M
Industrial Monitor	 LCD touchscreen Multi-touch functionality Supply voltage: 24 VDC Up to 1,280 x 800 pixels at 60 Hz 2 USB Type-A Connectors Programmable brightness control Standard and 100 m cable models are available. 	NYM1□W-C10□□
Power Supply	Output voltage: 24 VDC Push-In Plus terminal blocks	S8VK-S□□□24
UPS *3	Output voltage during backup operation: 24 VDC ± 5%	S8BA
UPS Communication Cable	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, NYB17, NYB25, NYB1C, NY51

NY000-AB02: for NYB35-\(_1 \), NYB2C-\(_1 \)
NY000-AB04: for NYB35-\(_0 \), NYB2C-\(_0 \)

*2. CFast Storage can be used only with the NYB35-\(\sigma\), NYB2C-\(\sigma\). Please contact your Omron representative to discuss the possibilities. *3. Revision number 04 or higher.

The revision number of the UPS can be retrieved from the serial number label on the product and the product packaging.

АЗ□			
1	2	3	4

Item	Description
1	Product code
2	Product period and sequential number
3	Revision number
4	RoHS status

Spare Parts

The following spare parts for the Industrial Box PC are available.

Product name	Specifications	Model				
Battery	One battery is supplied with the Industrial Box PC. The battery supplies power to the real-time clock. The battery is located inside the Industrial Box PC. Service life: 5 years at 25°C					
Fan Unit	NY000-AF00					
Accessory Kit	Accessory Kit containing all accessories supplied with the Industrial Box PC. Power connector I/O connector Drive bracket for drive installation 4 mounting screws for drive installation PCIe Card support for PCIe Card installation PCIe Card clip for PCIe Card installation	NY000-AK00				

^{*}Only for models with replaceable battery.

Installed Support Software

Item	Specifications
Industrial PC Support Utility	The Industrial PC Support Utility is a software utility to assist in diagnosing and resolving problems of the Industrial Box PC.
	It is pre-installed on the Industrial Box PC and the Industrial Panel PC.
Industrial PC Tray Utility	The Industrial PC Tray Utility is a software utility that provides information about the current state of the Industrial PC, its related devices, and associated software.
	It is pre-installed on the Industrial Box PC and the Industrial Panel PC.
Industrial PC System API	The Industrial PC System API allows programmers to create programs that can retrieve information or set an indicator status of the Industrial Box PC.
industrial 1 0 bystem Al 1	The API makes use of the included IPC System Service to manage the hardware. It is pre-installed on the Industrial Box PC and the Industrial Panel PC.
Industrial Monitor Utility	For the optional OMRON Industrial Monitor. The Industrial Monitor Utility provides a user interface to control settings and display details of connected Industrial Monitors.
•	It is pre-installed on the Industrial Box PC and the Industrial Panel PC.
Industrial Monitor Brightness Utility	For the optional OMRON Industrial Monitor. The Industrial Monitor Brightness Utility is a small software utility that allows you to control the brightness of the screen backlight of all connected Industrial Monitors. It is pre-installed on the Industrial Box PC and the Industrial Panel PC.
Industrial Monitor API	For the optional OMRON Industrial Monitor. The Industrial Monitor API allows programmers to create applications that can control the hardware features and retrieve information from connected Industrial Monitors. It is pre-installed on the Industrial Box PC and the Industrial Panel PC.
Industrial PC Rescue Disk Creator	The Industrial PC Rescue Disk Creator creates a USB Rescue Disk which can be used to back-up and restore the Omron IPC Operating System. It is pre-installed on the Industrial Box PC and the Industrial Panel PC.

Soft-NA

Product name	Specifications	Number of licenses	Media	Model
	The Soft-NA is software that displays information on FA manufacturing sites while providing safety, reliability,	(Media only) DVD NA-RTS		NA-RTSM
Soft-NA	and maintainability as an industrial display on which operations can be performed as necessary. The Soft-NA runs on the following OS:	1 license		NA-RTLD01
		3 licenses	USB dongle	NA-RTLD03
	Windows 10 Pro Version 1903 or later 64 bit	10 licenses		NA-RTLD10

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 d	rive necessary for installation	1 GB or more		
Optical disk drive		DVD-ROM drive		
Communication nort	USB	USB2.0 Type-A x 2 *1		
Communication port	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- □□□□□	NYB17- □□□□□	NYB25- □□□□□ *4	NYB1C-	NYB35- □1□□□	NYB2C- □1□□□	NYB35- □0□□□	NYB2C- □0□□□	NYB2A- □0□□□	
		CPU type		Intel® Xeon® E3-1515M v5	Intel® Core™ i7-4700EQ	Intel® Core™ i5-4300U	Intel® Celeron® Processor 2980U	Intel® Core™ i5-7300U	Intel® Celeron® Processo r 3965U	Intel® Core™ i5-7300U	Intel [®] Celeron [®] Processo r 3965U	Intel® Atom® Processor x5-E3940	
		Cores / Thre	eads	4/8	4/8	2/4	2/2	2/4	2/2	2/4	2/2	4/4	
	CPU	CPU base frequency		2.8 GHz	2.4 GHz	1.9 GHz	1.6 GHz	2.6 GHz	2.2 GHz	2.6 GHz	2.2 GHz	1.6 GHz	
		Maximum to frequency	urbo	3.7 GHz	3.4 GHz	2.9 GHz	-	3.5 GHz	-	3.5 GHz	-	1.8 GHz	
		Cache		8 MB	6 MB	3 MB	2 MB	3 MB	2 MB	3 MB	2 MB	2 MB	
		Cooling det	ails	Requires active (fan)	cooling	Passive coo	ling (fanless)						
Main system		Memory siz	e *1	8, 16 or 32 GB	4, 8 or 16 GB	2, 4 or 8 GB	2, 4 or 8 GB	4 or 8 GB	4 or 8 GB	8 or 16 GB	4 or 8 GB	2, 4 or 8 GE	
ayatem	Memory	Memory typ	oe .	DDR4 (ECC is available)	DDR3L (nor	n ECC)	I	DDR4 (no	on ECC)	DDR4 (no	n ECC)	DDR3L (non ECC)	
	Trusted platt	form module	(TPM)	Available									
	Graphics co	ntroller		Intel® Iris TM Pro Graphics. Up to two independent screens.	Pro Graphics. Up to two independent screens. Intel® HD Graphics. Up to two independent screens.								
				Intel [®] Iris [™] Pro Graphics P580	Intel® HD Graphics 4600	Intel® HD Graphics 4400	Intel® HD Graphics	Intel® HD Graphics 620	Intel® HD Graphics 610	Intel® HD Graphics 620	Intel® HD Graphics 610	Intel [®] HD Graphics 500	
	Watchdog			Yes									
Operating system	Windows OS			Windows 10 IoT Enterprise 2016 LTSB - 64 bit	bit Windows Er bit	nbedded Standard 7 - 32 nbedded Standard 7 - 64 IoT Enterprise 2016 LTSB Windows 10 IoT Enterprise 2016 LTSB		Windows 10 I oT Enterprise 2016 LTSB - 64 bit		Windows 10 IoT Enterprise 2019 LTSC- 64 bit			
	Drives *1	Hard Disk D	rd Disk Drive • 320 G Serial		9 GB, 1 TB			• 320 GB Serial A		N/A			
		ives *1 Solid State	SLC type	• 64 GB Serial ATA 3.1	• 32 GB an Serial AT			• 64 GB Serial ATA 3.1					
Storage devices		Drive MLC type		• 128 GB, 500 GB Serial ATA 3.1	500 GB • 128 GB Serial Serial ATA 3.1					• 64 GB, 128 GB, 256 GB Serial ATA 3.1			
	Drive bays (HDD/SSD) *2		2	2	2	1	2	2	CFast slot	CFast	CFast slot		
	Power conne	ector		24 VDC									
	I/O connecto			2 inputs (UPS signal and power OFF control) and 1 output (Industrial Box PC power state)									
		Number of I	ports	2 11 pais (of 3 signal and power of 1 control) and 1 output (modstrial box 1 o power state)									
	USB2.0	Maximum c	•	500 mA									
	Type-A	Maximum c	able	5 m									
		Number of	ports	2									
Connecto	USB3.0	Maximum c		900 mA									
rs	Type-A	Maximum c	able	3 m									
		length											
	Ethernet connectors	Number of p		3									
	Connectors	Physical lay Video interf		10BASE-T, 100BASE-TX or 1000BASE-T									
	DVI-I	Resolution		Digital or analo Up to 1,920 x 1		Digital only							
	connector	Maximum D		-	-								
		cable lengtl		Dependent upo	n connected	monitor type a	and resolution						
	RS-232C			Standard DSU	39 connector	(Non-Isolated)			N/A			
		Video interf	face	Digital only						N/A			
	DVI-D	Resolution		Up to 1,920 x 1	1,200 pixels at 60 Hz						N/A		
		Maximum D		Dependent upo	n connected	monitor type a	and resolution			N/A			
Ontional		Video interf		Digital only						1			
Optional connector		Resolution	400	1,280 x 800 pix	els at 60 Hz								
select		Connector	tvpe	RJ45	41 00 112								
one per system)	NY Monitor	Cable shield	• •										
., ,	Link	type and ma length		S/FTP, Cat.6A,	100 m								
		USB data throughput		280 Mbps max		T							
	GigE LAN	Physical lay	yer	10BASE-T, 100 or 1000BASE-T					-				
	orgr ryerear rayer												

	Item	NYB1E-	NYB17-	NYB25- □□□□□ *4	NYB1C- □□□□□ *4	NYB35- □1□□□	NYB2C-	NYB35- □0□□□	NYB2C-	NYB2A- □0□□□		
PCIe Card	Configuration	X4 (4 lanes) up	up to Gen 3 X1 (1 lane) up to Gen 2			X2 (2 lanes) up to Gen 3		N/A				
Slot Card height Standard height cards, 4.20 inches (106.7 mm) *3						inches (106.7 mm) *3 N/A						
	Card length	Half length card	Half length cards, 6.6 inches (167.65 mm)					N/A				
Dattem	Model	CJ1W-BAT01	CJ1W-BAT01					Non replaceable battery				
Battery	Service life	5 years at 25°C	5 years at 25°C				10 years at 40°C					
	Model	NY000-AF00		No fan unit								
Fan unit	Service life	70,000 hours of operation at 40' to 65% relative	°C with 15%				_					
LED		PWR, ERR, HD	D, RUN	· · · · · · · · · · · · · · · · · · ·								

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

Electrical Specifications

Item		NYB1E-	NYB17-	NYB25-	NYB1C-	NYB35- □1□□□	NYB2C- □1□□□	NYB35- □0□□□	NYB2C- □0□□□	NYB2A- □0□□□	
CPU type		Intel® Xeon® E3-1515M v5	Intel® Core™ i7-4700EQ CPU	Intel® Core TM i7-4700EQ CPU	Intel® Celeron® 2980U CPU	Intel® Core™ i5-7300U	Intel® Celeron® Processor 3965U	Intel® Core™ i5-7300U	Intel® Celeron® Processor 3965U	Intel® Atom® Processor x5-E3940	
Rate	d power supply voltage	24 VDC, non-isolated									
Allov	wable power supply voltage range	20.4 to 28.8	VDC								
Grou	ınding method	Ground to le	ess than 100	Ω							
Inrus	sh current	At 24 VDC:	12 A / 6 ms r	nax. for cold	start at room	temperature					
Over	voltage category	Meets IEC	61010-2-201:	Category II							
EMC	immunity level	IEC 61131-	2: Zone B								
RTC	accuracy	At ambient	temperature of temperature of temperature of	of 25°C: -1.5	to +1.5 min e	rror per mont					
Powe	er button life	100,000 op	erations								
Batte	ery life		5°C (for batte	ry CJ1W-BA	T01)	10 years at	40°C				
Fan I	life	8 years of cooperation at		_	_	-	_	-	-	-	
Powe	er consumption *		-								
	Maximum power consumption including drives and expansions	121 W	114 W	75 W	66 W	69 W	50 W	61 W	42 W	41 W	
	Maximum power consumption excluding drives and expansions	86 W	81 W	52 W	45 W	46 W	27 W	46 W	27 W	26 W	
	Drives					_					
	HDD 320 GB	2 W						_			
	HDD 500 GB	2 W	2 W						_		
	HDD 1 TB	2 W	2 W						-		
	SSD SLC 32 GB	2 W							-		
	SSD SLC 64 GB	2 W							-		
	SSD MLC 128 GB	2 W	2 W								
	SSD MLC 500 GB	3 W							-		
	CFast MLC 64 GB				_			1 W			
	CFast MLC 128 GB		-						1 W		
	CFast MLC 256 GB				_			1 W			
	Expansions					-		•			
	USB	14 W max.	((2 x 500 mA	at 5 V) + (2 x	900 mA at 5	V))					
	PCle	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 Use	er's Manual	(W553) for (letail	1		1	1			

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

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

It	em	NYB1E / NYB17	NYB25 / NYB1C / NYB35 / NYB2C / NYB2A		
Minimum power	Power supply	240 W	120 W		
requirements	UPS	240 W	120 W		

^{*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.} Not recommended for new projects.

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

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 standard 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 PCle 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
	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.
Operation environment	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/s² 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/s², 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 ²	2.5 m/s ²
Wall		4.9 m/s ²

^{*3.} Refer to the OMRON website (www.ia.omron.com) or contact your OMRON representative for the most recent applicable standards for each model.

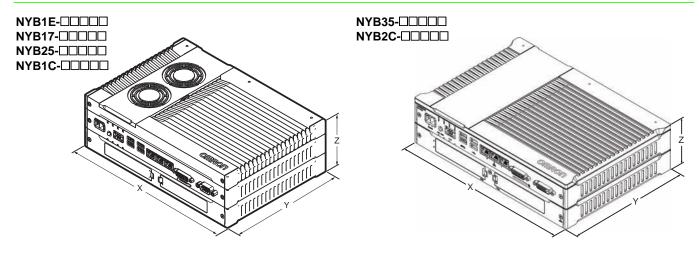
Storage Device Specifications

Item	Specifications										
Model	NY000- AS00	NY000- AS01	NY000- AS03	NY000- AS04	NY000- AS05	NY000- AH00	NY000- AH01	NY000- AH02	NY000- AT00	NY000- AT01	NY000- AT02
Capacity	32 GB	64 GB	64 GB	128 GB	500 GB	320 GB	500 GB	1 TB	64 GB	128 GB	256 GB
Туре	SSD (SLC)		SSD (SLC)	SSD (MLC)	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 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 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 co	% ndensation)	10% to 85% (with no condensat ion)	10% to 95% (with no co	95% o condensation) 8% to 90% (with no condensation)				10% to 95% (with no condensation)		
Storage temperature	-40 to 100°	С	-45 to 90°C	-55 to 95°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	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		Average Annualized Failure Rate (AFR): 0.50% Under the following conditions: • Case Temperat ure 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

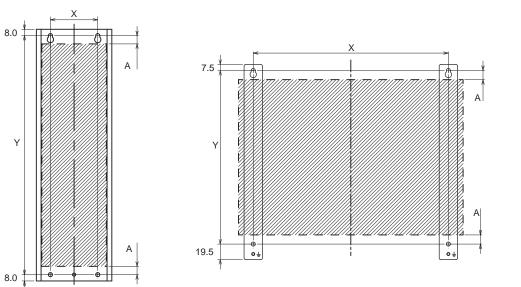


	Specifications						
	Вох						
Item	XYB1E-□□□□□ NYB17-□□□□□ NYB25-□□□□□ NYB1C-□□□□□	NYB35-□1□□□ NYB2C-□1□□□	NYB35-□0□□□ NYB2C-□0□□□ NYB2A-□0□□□				
Dimensions	Width X = 282 mm Depth Y = 195 mm. Y = 200 mm including the DVI connectors. Height Z = 88.75 mm	Width X = 282 mm Depth Y = 195 mm. Y = 200 mm 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 = 41 mm				
Weight	3.8 kg	3.0 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:



Model	Bracket type		Drill Specifications	Product Dimensions		
Wiodei		Hole Distance X	Hole Distance Y	Hole Distance A	Bracket Width	Bracket Height
NYB1E NYB25	Book mount	60 mm	303 mm	11 mm	96 mm	319 mm
NYB17 NYB1C	Wall mount	245 mm	218 mm	12 mm	23 mm	245 mm
NYB35-□1□□□	Book mount	50 mm	303 mm	11 mm	80 mm	319 mm
NYB2C-□1□□□	Wall mount	245 mm	218 mm	12 mm	23 mm	245 mm
NYB35-□0□□□	Book mount	n.a.	298 mm	11 mm	47 mm	319 mm
NYB2C-□0□□□ NYB2A-□0□□□	Wall mount	245 mm	218 mm	12 mm	23 mm	245 mm

(Unit: mm)

Recommended Related Products



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	NYB1E1	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: • Overview • Hardware • Software • Specifications • Installation • Operating Procedures • Maintenance
NY-Series Industrial Box-PC without OS User's Manual	W586	NYB1E1	Learing 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: Overview Hardware Software Specifications Installation Operating Procedures Maintenance
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: Overview Hardware Software Specifications Installation Operating Procedures Maintenance
Industrial Panel PC User's Manual	W555	NYP17	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: • Overview • Hardware • Software • Specifications • Installation • Operating Procedures • Maintenance
NY-Series Industrial Panel-PC without OS User's Manual	W587	NYP17-\ 10 \ -15WC100 \ NYP17-\ 10 \ -15WC100 \ NYP25-\ 10 \ -15WC100 \ NYP25-\ 10 \ -15WC100 \ NYP1C-\ 10 \ -15WC100 \ NYP1C-\ 10 \ -15WC100 \ NYP1C-\ 10 \ -15WC100 \ NYP35-\ 00 \ -15WC100 \ NYP35-\ 00 \ -15WC100 \ NYP2C-\ 00 \ -19WC100 \ NYP2C-\ 00 \ -19WC100 \ NYP2C-\ 00 \ -19WC100 \	Learing 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: Overview Hardware Software Specifications Installation Operating Procedures Maintenance
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: Overview Preparation Installation and Connection Check and Start Operation Maintenance and Inspection Shutdown Processing I/O Signal Functions Troubleshooting

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