Works great, looks great.

Our NY industrial Panel PC enables operator and maintenance engineer to operate and interact more effectively with the machine, using powerful, tough and future-proof PC technology for visualization, data-handling, measuring and controlling. Omron engineers used the latest insights in design simplification to cut faults caused by complexity, while optimizing operator efficiency, maximizing uptime and reducing costs.



Features

- No internal cables in the PC part eliminates faults, maximizes uptime
- Unique simplified thermal design cuts downtime
- Powerful Intel[®] Core[™] technology for optimum performance
- Industrial CPU's with long availability
- 12.1, 15.4 and 18.5 inch industrial display
- Multi-touch projected capacitive touchscreen
- False touch detection (palm, water)
- Operator can wear gloves *

* When using gloves, ensure to use gloves that are functional with this touchscreen.

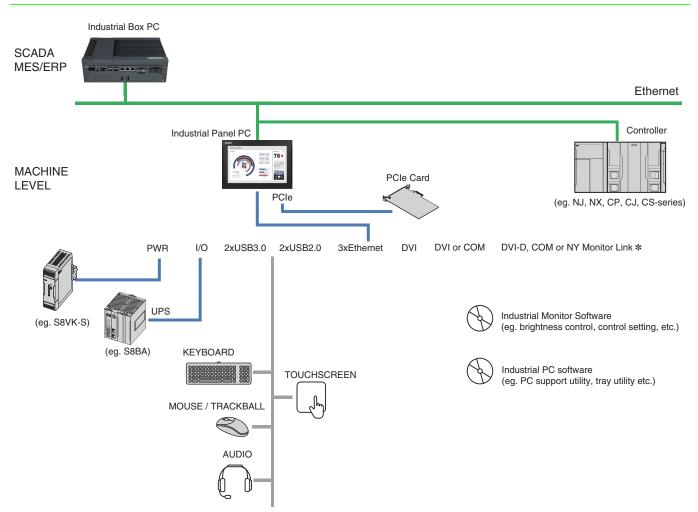
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System Configuration



*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.

 $\underbrace{\text{NYP}}_{1} \underbrace{\square}_{2} - \underbrace{\square}_{3} \underbrace{\square}_{4} \underbrace{\square}_{5} \underbrace{\square}_{6} \underbrace{\square}_{7} - \underbrace{\square}_{8} \underbrace{\square}_{9} \underbrace{\square}_{10} \underbrace{\square}_{11} \underbrace{\square}_{12} \underbrace{\square}_{13} \underbrace{\square}_{14}$

Item	Description	Option / Description
1	Series name	NYP: NY- series Industrial Panel PC
2	Processor	27: Intel® Core™ i7-7820EQ7th generation CPU with fan unit for active cooling35: Intel® Core™ i5-7300U7th generation CPU with fanless cooling2C: Intel® Celeron® 3965U7th generation CPU with fanless cooling2A: Intel® Atom® x5-E3940
3	Main memory	1: 2 GB, non-ECC 2: 4 GB, non-ECC 3: 8 GB, non-ECC 4: 16 GB, non-ECC 5: 32 GB, non-ECC C: 8 GB, ECC D: 16 GB, ECC E: 32 GB, ECC
4	Expansion slots	0: No PCIe slot 1: 1 PCIe slot
5	Operating system	0: No operating system 3: Windows 10 IoT Enterprise 2016 LTSB - 64 bit 4: Windows 10 IoT Enterprise 2019 LTSC - 64bit F: Windows 10 IoT Enterprise 2019 LTSC - 64 bit + FH software
6	Storage	0: No disk 5: 64 GB, CFast MLC 6: 128 GB, CFast MLC 7: 256 GB, CFast MLC 8: 32 GB, SSD SLC 9: 64 GB, SSD SLC C: 320 GB, HDD D: 500 GB, HDD E: 1 TB, HDD K: 128 GB, SSD MLC L: 256 GB, SSD MLC M: 500 GB, SSD MLC P: 1 TB, SSD 3DTLC
7	Optional interface	0: No optional interface 1: RS-232C 2: DVI-D 6: NY Monitor Link
8	Display size (diagonal)	12: 12.1 inch model, 1280 x 800 pixels, 24 bit full color 15: 15.4 inch model, 1280 x 800 pixels, 24 bit full color 19: 18.5 inch model, 1,920 x 1,080 pixels, 24 bit full color
9	Display ratio	W: Wide
10	Touchscreen	C: Projected Capacitive Touch type
11	Frame type	1: Panel mounted
12	Material/finish	0: Aluminum, black paint 1: Aluminum, Nickel plating
13	Built-in options	0: None
14	Logo	0: OMRON 2: Customized logo *

* Please consult your OMRON representative for details.

Ordering Information

NY-series Industrial PC Platform

Recommended models

The industrial Panel 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.

			Sp	ecifications					
Product name	Display size	Operating system	CPU type	RAM memory (non-ECC type)	Storage size	Interface option	PCIe-slot	Model	
		Windows 10 IoT Enterprise 2016	Intel [®] Core™ i5-7300U	8 GB	256 GB CFast type (MLC)	No	No	NYP35-30370-12WC1000	
	12.1 Inch	LTSB - 64 bit	Intel [®] Celeron™ 3965U	8 GB	256 GB CFast type (MLC)	No	No	NYP2C-30370-12WC1000	
	12.1 Inch	Windows 10 IoT	Intel [®] Core™ i7-7820EQ	8 GB	128 GB CFast type (MLC)	No	No	NYP27-30460-12WC1000	
		Enterprise 2019 LTSC - 64bit	Intel [®] Atom [®] x5-E3940	4 GB	128 GB CFast type (MLC)	No	No	NYP2A-20460-12WC1000	
	15.4 Inch	Windows 10 IoT Enterprise 2016 LTSB - 64 bit	Intel [®] Core™ i5-7300U	8 GB	256 GB CFast type (MLC)	No	No	NYP35-30370-15WC1000	
Industrial			Intel [®] Celeron™ 3965U	8 GB	256 GB CFast type (MLC)	No	No	NYP2C-30370-15WC1000	
Panel PC		Windows 10 IoT Enterprise 2019	Intel [®] Core™ i7-7820EQ	8 GB	128 GB CFast type (MLC)	No	No	NYP27-30460-15WC1000	
		LTSC - 64bit	Intel [®] Atom [®] x5-E3940	4 GB	128 GB CFast type (MLC)	No	No	NYP2A-20460-15WC1000	
		Windows 10 IoT	Intel [®] Core™ i5-7300U	8 GB	256 GB CFast type (MLC)	No	No	NYP35-30370-19WC1000	
		Enterprise 2016 LTSB - 64 bit	Intel [®] Celeron™ 3965U	8 GB	256 GB CFast type (MLC)	No	No	NYP2C-30370-19WC1000	
	18.5 Inch *	Windows 10 IoT	Intel [®] Core™ i7-7820EQ	8 GB	128 GB CFast type (MLC)	No	No	NYP27-30460-19WC1000	
		Enterprise 2019 LTSC - 64bit	Intel [®] Atom [®] x5-E3940	4 GB	128 GB CFast type (MLC)	No	No	NYP2A-20460-19WC1000	

*18.5 inch models also available with Nickel Plating front.

Accessories

Optional Hardware

Product name	Specifications	Model
	Card type: SD Card Capacity: 2 GB Format: FAT16	HMC-SD291
D Memory Cards	Card type: SDHC Card Capacity: 4 GB Format: FAT32	HMC-SD491
	Card type: SDHC Card Capacity: 16 GB Format: FAT32	HMC-SD1A1
SB Flash Drives	Capacity: 2 GB	FZ-MEM2G
OD Hash Brives	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 type: SSD SLC (Hagiwara) Capacity: 64 GB	NY000-AS03
torage Devices	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
OVI Cables	Cable length: 2 m Supports DVI-D Minimum bend radius: 36 mm	NY000-AC00 2M
in cables	Cable length: 5 m Supports DVI-D Minimum bend radius: 36 mm	NY000-AC00 5M
	Output voltage: 24 VDC Push-In Plus terminal blocks	S8VK-G□□24
iowor Supply	Output voltage: 24 VDC EtherNet/IP, Modbus TCP-Compatible	S8VK-X
ower Supply	Output voltage: 24 VDC Compact	S8VK-S024
	Output voltage: 24 VDC Three-phase 200-V Power Supplies	S8VK-WA
PS *1	Output voltage during backup operation: 24 VDC ± 5%	S8BA
JPS Communication Cable	Cable length: 2 m Signals for • Signal output (BL, TR, BU, WB) • Remote ON/OFF input • UPS Stop Signal input (BS)	S8BW-C02

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

***1.** Revision number 04 or later.

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

A30 00000000 00 0

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 Panel PC are available.

Product name	Specifications	Model
Battery	One battery is supplied with the Industrial Panel PC. The battery supplies power to the real-time clock. The battery is located inside the Industrial Panel PC. Service life: 5 years at 25°C	CJ1W-BAT01 *
Fan Unit	The Fan Unit is available for the Industrial Panel PC that has active cooling. Service life: 70,000 hours of continuous operation at 40°C with 15% to 65% relative humidity. Shelf life: 6 months This is the storage limitation with no power supplied.	NY000-AF00
Accessory Kit	Replacement kit containing all accesories supplied with Industrial Panel 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
	Power connectors (10 pcs) for Industrial Box PC and Industrial Panel PC	NY000-AK01
* Only for models with replace	ceable battery.	

* 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 Panel 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 Panel PC. 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	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	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	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
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 perfoemed 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		NA-RTLD01
		3 licenses	USB dongle	NA-RTLD03
		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 dri	ve 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			NYP35-01000	NYP2C-D1DDD	NYP27-0000	NYP35-0000	NYP2C-D0DD	NYP2A-D0DD	
		CPU type		Intel [®] Core™ i5-7300U	Intel [®] Celeron [®] 3965U	Intel [®] Core™ i7-7820EQ	Intel [®] Core™ i5-7300U	Intel [®] Celeron [®] 3965U	Intell [®] Atoml [®] x5-E3940	
		Cores / Th	reads	2/4	2/2	4/8	2/4	2/2	4/4	
		CPU base	frequency	2.6 GHz	2.2 GHz	3.0 GHz	2.6 GHz	2.2 GHz	1.6 GHz	
	СРИ	Maximum frequency		3.5 GHz	-	3.7 GHz	3.5 GHz	-	1.8 GHz	
		Cache		3 MB	2 MB	8 MB	3 MB	2 MB	2 MB	
Main		Cooling d	etails	Passive cooling ((fanless)	Requires active cooling (fan)	Passive cooling	(fanless)		
system		Intel CPU	category	Industrial (100%	operation minimal	10yr)				
		Memory s	ize *3	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	Memory ty	/pe	DDR4 (non ECC)				DDR3L (non ECC)	
	Trusted plat	form modul	e (TPM)	Available						
				Intel [®] HD Graphi	cs. Up to two indep	pendent screens.				
	Graphics co	ntroller		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	1				1	
Operating system	Windows OS	5		Windows 10 IoT LTSB - 64 bit	Windows 10 IoT Enterprise 2016 Windows 10 IoT Enterprise 2016			Enterprise 2016	Windows 10 IoT Enterprise 2019 LTSC - 64 bit	
		Hard Disk	Drive	• 320 GB Serial ATA 3.0		N/A				
Storage	Drives *3	Solid	SLC type	• 64 GB Serial ATA 3.1		N/A				
devices		State Drive	MLC type	• 128 GB Serial ATA 3.1		 64 GB, 128 GI Serial ATA 3.1 				
	Drive bays (I	Drive bays (HDD/SSD) *1		2	2	CFast slot	CFast slot	CFast slot	CFast slot	
	Power conne	ector		24 VDC		•				
	I/O connecto	or		2 inputs (Power ON/OFF Input and UPS Mode Input) and 1 output (Power Status Output)						
		Number of ports		2						
	USB2.0 Type-A	Maximum current		500 mA						
		Maximum	cable length	5 m						
	USB3.0	Number o	f ports	2						
Connectors	Туре-А	Maximum	current	900 mA						
		Maximum	cable length	3 m						
	Ethernet	Number o	f ports	3						
	connectors	Physical I	ayer	10BASE-T, 100BASE-TX or 1000BASE-T						
		Video inte	rface	Digital only						
	DVI-I connector	Resolutio	n	Up to 1,920 x 1,200 pixels at 60 Hz						
	connector	Maximum DVI cable	length	Dependent upon connected monitor type and resolution						
	RS-232C			Standard DSUBS (Non-Isolated)	econnector	N/A				
		Video inte	rface	Digital only		N/A				
	DVI-D	Resolutio	n	Up to 1,920 x 1,2	00 pixels at 60 Hz	N/A				
Optional connector		Maximum DVI cable		Dependent upon connected monitor type and resolution		N/A				
(select one		Video inte	rface	Digital only						
per system)	NV Meniter	Connecto	r type	RJ45						
	NY Monitor Link	Cable shie and max.	elding, type length	S/FTP, Cat.6A, 1	00 m					
		USB data	throughput	280 Mbps max.						
	GigE LAN	Physical I	ayer	N/A						

	Item	NYP35-01000		NYP27-0000	NYP35-0000	NYP2C-D0DDD	NYP2A-D0DDD	
	Configuration	X2 (2 lanes) up to	Gen 3	N/A				
PCIe Card Slot	Card height	Standard height ca 4.20 inches (106.7		N/A				
	Card length	Half length cards, 6.6 inches (167.65	ō mm)	N/A				
Battery	Model	Non replaceable battery		CJ1W-BAT01	Non replaceable battery			
	Service life	10 years at 40°C *4		5 years at 25°C	10 years at 40°C * 4			
	Model	No fan unit		NY000-AF00	No fan unit			
Fan unit	Service life	_		70,000 hours of continuous operation at 40°C with 15% to 65% relative humidity				
LED	LED		PWR, ERR, HDD, RUN					

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

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

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

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

Display Specifications

		• • • •		Specifications					
	Item		12.1 Inch models	15.4 Inch models	18.5 Inch models				
		Display device	TFT LCD						
		Screen size	12.1 inches	15.4 inches	18.5 inches				
		Surface treatment	Anti glare treatment	•					
		Surface hardness	Mohs scale: 5 - 6						
		Resolution	1,280 \times 800 pixels at 60 Hz (hor	rizontal \times vertical)	1,920 \times 1,080 pixels at 60 Hz (horizontal \times vertical)				
	Display panel	Colors	16,770,000 colors						
	*1	Effective display area	261 × 163 mm (horizontal ´vertical)	$331 \times 207 \text{ mm}$ (horizontal × vertical)	$409 \times 230 \text{ mm}$ (horizontal × vertical)				
Display		View angles	Left: 60°, Right: 60°, Top: 60°, Bottom: 60°		Left: 89°, Right: 89°, Top: 89°, Bottom: 89°				
Biopiay		Typical LCD Brightness (initial)	1,500 cd/m ²	400 cd/m ²	500 cd/m ²				
		Life	50,000 hours min. *2						
		Brightness adjustment	200 levels *3						
		Technology	Projected capacitive						
		Touch resolution	Touch accuracy 1.5% (4-5 mm)						
	-	Multi touch	Up to 5 simultaneous touches						
	Touch	Features	Water detection *4, hand palm	rejection *5, gloves *6					
		Life	50,000,000 operations min.						
		EMC	Correct touchscreen operation is	s possible within allowable EM	C immunity conditions				

*1. There may be some defective pixels in the display. This is not a fault as long as the numbers of defective light and dark pixels fall within the following standard range: light and dark pixels 10 or less. (There must not be 3 consecutive light/dark pixels.)

*2. This is the estimated time before brightness is reduced by half at room temperature and humidity.

The life expectancy is drastically shortened if used at high temperatures.

***3.** If the brightness is set to very dark, it causes flickering or the screen will be too dark to use. ***4.** If water is detected the touch functionality will not be available.

***5.** If a palm is detected that specific area is ignored.

*6. The touchscreen can be operated when wearing gloves. Check correct usage of the gloves before using them.

Electrical Specifications

ltem	I	NYP35-01000	NYP2C-D1DDD	NYP27-0000	NYP35-0000	NYP2C-D0DDD	NYP2A-D0DDD		
CPU	type	Intel [®] Core™ i5-7300U	Intel [®] Celeron [®] 3965U	Intel [®] Core™ i7-7820EQ	Intel [®] Core™ i5-7300U	Intel [®] Celeron [®] 3965U	Intel [®] Atom [®] x5-E3940		
Rate	ed power supply voltage	24 VDC, non-isolated							
Allov	wable power supply voltage range	20.4 to 28.8 VDC							
Grou	unding method	Ground to less than 100 Ω							
Inrus	sh current	At 24 VDC: 12 A / 6 ms max. for cold start at room temperature							
Over	rvoltage category	Meets IEC 61010-	2-201: Category II						
ЕМС	immunity level	IEC 61131-2: Zon	e B						
RTC	accuracy	At ambient temper	rature of 25°C: -1.5 t	to +0.5 min error per to +1.5 min error per 1 min error per mon	month				
Power button life		100,000 operation	S						
Batte	ery life	10 years at 40°C		5 years at 25°C (for battery CJ1W-BAT01)	10 years at 40°C				
Fan life		-	_	8 years of continuous operation at 40°C	_	_	-		
Powe	er consumption *1						1		
	Maximum power consumption including drives and expansions	84 W	66 W	116 W 140 W * 2	61 W 84 W * 2	58 W 80 W * 2	57 W 79 W * 2		
	Maximum power consumption excluding drives and expansions	61 W	43 W	101 W 125 W * 2	76 W 99 W * 2	43 W 65 W * 2	42 W 64 W * 2		
	Drives				_	·			
	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				_			
	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 5	00 mA at 5 V) + (2 x	900 mA at 5 V))					
	PCle	5 W max.	5 W max.			-			

Note: Refer to the Industrial Panel PC User's Manual (W555) for detail.

***1.** The total power consumption is the sum of the power consumption of all items that are installed in your Industrial Box PC. ***2.** The upper number is for the 12.1 and 15.4 inch models, and the lower number is for the 18.5 inch models.

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

Item		NYP27	NYP35 / NYP2C / NYP2A
Minimum power requirements	Power supply	240 W	120 W
	UPS	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 Panel PC is designed to meet the demands of industrial users for maximum robustness and reliability.

Powerful CPU options

Three powerful CPU options provide high performance for various applications.

Fanless cooling for multiple CPU types

The Industrial Panel PC has passive cooling for multiple CPU types which means no moving parts and less maintenance effort.

Easy access to storage devices and the PCI Express Card

Adding or changing storage devices (HDD, SSD) and the PCI Express Card is fast and simple.

LED indicators



DVI-I video interface 3 1Gbps Ethernet ports Built-in IO 4 USB ports Built-in SD Memory Card slot LCD touchscreen

Multi-touch functionality Up to 5 simultaneous touches are supported for complex functions.

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	Noise resistance (during operation)	Conforms to IEC61000-4-4, 2kV (power lines)				
environment	Vibration resistance (during operation)	 The vibration resistance depends on the storage device(s): For a Panel PC with only SSD storage devices: 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. Conforms to IEC 60068-2-6. For a Panel PC with one or more HDD storage devices the Panel PC must be installed in a vibration free environment. *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	Mount on panel				
	Degree of protection	Front of Monitor: IP65 *3				
	Pollution degree	2 or less: Meets IEC 61010-2-201.				
Applicable standards *4		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. A Panel PC with one or more HDD storage devices should not be used in applications subject to vibration. Examples of applications subject to vibration:

- AGV (Automated Guided Vehicles)
- Rail vehicle
- Stacker crane
- Elevator
- Tableting machine
- Connector pin assembling machine
- Bending machine

Ensure your Panel PC with HDD does not vibrate. When in doubt use a Panel PC with SSD storage devices.

*3. The Panel PC may not operate properly in locations subjected to oil splashes for extended periods of time.

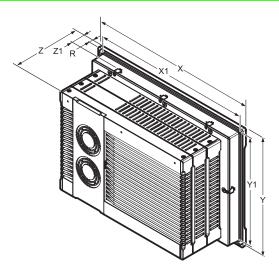
*4. Refer to the OMRON website (www.ia.omron.com) or contact your OMRON representative for the most recent applicable standards for each model.

Storage Device Specifications

Item	Specifications													
Model	NY000- AS00	NY000- AS01	NY000- AS03	NY000- AS04	NY000- AS05	NY000- AS07	NY000- AS08	NY000- AH00 * 1	NY000- AH01 * 1	NY000- AH02 * 1	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	
Туре	SSD (SLC	C)	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										1			
Rotation speed	-	-	-	-	-	-	-	5,400 r/min	l		-	-	-	
Interface	Serial AT	A 3.1	1		r.			Serial ATA 3.0			Serial ATA	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°	С				
Operating humidity	10% to 95 (with no condensa		10% to 85% (with no condens ation)	6 h no dens (with no condensation)			8% to 90% (with no condensation)			10% to 95% (with no condensation)				
Storage temperature	-40 to 100	0°C	-45 to 90°C	-55 to 95°	-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	hours (whic comes first) following cc • 25°C at • Less tha powered month * • Less tha operation powered	owered-ON shever) under the onditions: 101.3 kPa n 333 -ON hours/ 2 n 20% n while -ON *3 n 1.30 x 106	Average Annualized Failure Rate (AFR): 0.50% Under the following conditions: • Case Temperatu re 40°C • Power on Hours (POH) \leq 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.** For a Panel PC with an HDD: this device can only be installed in a vibration free environment only. (NYP) ***2.** Powered-ON hours include sleep and standby modes. ***3.** Operation includes seeking, writing, and reading functions.

Dimensions



	Panel						
	12.1 Inch						
Item	NYP35-□1□□□ NYP2C-□1□□□	NYP27-00-0	NYP35-=00==== NYP2C-=00==== NYP2A-==0====				
Panel preparation dimensions	Cutout Width X1 = 314^{-0+1} mm Cutout Height Y1 = 216^{-0+1} mm						
Panel thickness range *	Panel thickness range Z1 = 1.6 to 6.0 mm						
Dimensions	Width X = 332 mm Height Y = 234 mm Depth Z = 105 mm	Width X = 332 mm Height Y = 234 mm Depth Z = 87 mm	Width X = 332 mm Height Y = 234 mm Depth Z = 71 mm				
Monitor thickness in front of panel	Rim thickness R = 8.0 mm						
Weight	5.6 kg 5.1 kg 4.7 kg						

	Panel						
	15.4 Inch						
Item	NYP35-01000 NYP2C-01000	NYP27-000	NYP35-0000 NYP2C-00000 NYP2A-00000				
Panel preparation dimensions	Cutout Width X1 = 383^{-0+1} mm Cutout Height Y1 = 259^{-0+1} mm						
Panel thickness range *	Panel thickness range Z1 = 1.6 to 6.0 mm						
Dimensions	Width X = 401 mm Height Y = 277 mm Depth Z = 105 mm	Width X = 401 mm Height Y = 277 mm Depth Z = 87 mm	Width X = 401 mm Height Y = 277 mm Depth Z = 71 mm				
Monitor thickness in front of panel	Rim thickness R = 8.0 mm						
Weight	6.6 kg 6.0 kg 5.6 kg						

	Panel 18.5 Inch				
Item	NYP27-0000	NYP35-00-00 NYP2C-00-00 NYP2A-00-00			
Panel preparation dimensions	Cutout Width X1 = 463^{-0+1} mm Cutout Height Y1 = 285^{-0+1} mm				
Panel thickness range *	Panel thickness range Z1 = 1.6 to 6.0 mm				
Dimensions	Width X = 481 mm Height Y = 303 mm Depth Z = 87 mm	Width X = 481 mm Height Y = 303 mm Depth Z = 71 mm			
Monitor thickness in front of panel	Rim thickness R = 8.0 mm				
Weight	7.2 kg	6.6 kg			

* The minimum panel thickness depends on the panel material.

Recommended Related Products



Industrial Box PC NY-series

The Industrial Box PC is designed to meet the specific needs of the industrial environment. Design simplification and future-proof architecture minimize the risk of failure.



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.



UPS S8BA-series

The OMRON S8BA UPS protects the Industrial 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 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: • Overview • Hardware • Software • Specifications • Installation • Operating Procedures • Maintenance
NY-Series Industrial Box-PC without OS User's Manual	W586	NYB1E1 NYB27 NYB350 NYB2C0	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: • 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	NYP27	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	NYP35-000-15WC100 NYP35-000-12WC100 NYP2C-000-15WC100 NYP2C-000-12WC100 NYP35-000-19WC100 NYP2C-000-19WC100	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: • 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
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: • Overview • Software • Specifications • Installation • Operating Procedures • Maintenance

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