

Industrial Gateways

Visualization Gateways



Model		WOP-204K-NAE	WOP-207K-NAE	WOP-208K-NAE	WOP-210K-NAE
CPU		RISC ARM9 300 MHz 32-bit			
Backup Memory		128 KB			
Backup Battery: Type/Voltage/Capacity		Manganese dioxide-Li/Organic Electrolyte, 3 V, 650 mAh			
Working Memory		64 MB SDRAM			
Storage		128 MB NAND Flash			
Application Software	Operating System	HMI RTOS, HMINavi Designer V4.0			
	Runtime Max Size	64 MB (in NAND Flash)			
	Data Logger Max Size	64 MB (in NAND Flash)			
	Max Programming Screen	7999 Pages			
	Max Macro Commands	Unlimited			
Display	Type	WQVGA TFT LCD	WVGA TFT LCD	SVGA TFT LCD	WSVGA TFT LCD
	Size	4.3"	7"	8"	10.1"
	Max. Resolution	480 x 272	800 x 480	800 x 600	1024 x 600
	Max. Colors	65,536 colors (16-bit)			
	Luminance (cd/m ²)	400	400	250	350
	Backlight Life (hrs)	LED, 20,000			
Touchscreen		4-wire analog resistive			
Communication Interface	COM1	RS-232 (5-Pin Terminal)	RS-232 (DB9 Female)	RS-232 (DB9 Female)	RS-232 (DB9 Female)
	COM2	RS-422/485 (5-Pin Terminal)	RS-422/485 (DB9 Female)	RS-422/485 (DB9 Female)	RS-422/485 (DB9 Female)
	COM3	RS-485 (5-Pin Terminal)	RS-485 (DB9 Female)	RS-485 (DB9 Female)	RS-485 (DB9 Female)
	Ethernet (RJ-45)	10/100-Base-T Ethernet	10/100-Base-T Ethernet	10/100-Base-T Ethernet	10/100-Base-T Ethernet
I/O	USB Client	✓	✓	✓	✓
	USB Host	✓	✓	✓	✓
	Power Isolation	✓	✓	✓	✓
Power Supply Input Voltage		24 V _{oc} ± 10%			
Power Consumption		10 W	20 W	20 W	20 W
Dimension (W x H x D)		129 x 103 x 31.3 mm	189.6 x 144.9 x 36 mm	233 x 176 x 43.3 mm	270.1 x 212.1 x 43.4 mm
Cut-Out Dimension (W x H)		118.5 x 92.5 mm	175 x 132.5 mm	221 x 164 mm	259.5 x 201.5 mm
Front Panel Thickness		5 mm	6 mm	6 mm	6 mm
Enclosure		PC			
Weight (Net)		0.23 kg (0.51 lb)	0.55 kg (1.21 lb)	1 kg (2.2 lb)	1.1 kg (2.43 lb)
Reliability Certification	Operating Temperature	-15 ~ 65°C (5 ~ 149°F)			
	Storage Temperature	-20 ~ 70°C (-4 ~ 158°F)			
	Humidity	95% RH @ 40°C			
	Vibration Protection	5 ~ 500 Hz (X, Y, Z directions, 1 Grms, 1 hour per axis)			
	Ingress Protection	Front Panel IP66			
	CE	EN 61000-6-2, EN 61000-6-4			
	EMI	FCC Part 15 Class A			
UL	UL-61010-1, UL-61010-2-201				

✓ : supported, - : not supported, △ : optional

Intelligent Gateways



NEW



NEW



Model		WOP-212K-NAE	WOP-215K-NAE	WOP-207T-NAE	WOP-210T-NAE
CPU		RISC ARM9 300 MHz 32-bit		RISC ARM9 300 MHz 32-bit	
Backup Memory		128 KB		1 MB	
Backup Battery: Type/Voltage/Capacity		Manganese Dioxide-Li/Organic Electrolyte, 3 V, 650 mAh		Manganese Dioxide-Li/Organic Electrolyte, 3 V, 650 mAh	
Working Memory		64 MB SDRAM		128 MB SDRAM	
Storage		128 MB NAND Flash		128 MB NAND Flash	
Application Software	Operating System	HMI RTOS, HMINavi Designer V4.0		HMI RTOS, HMINavi Designer V4.0	
	Runtime Max Size	64 MB (in NAND Flash)		64 MB (in NAND Flash)	
	Data Logger Max Size	64 MB (in NAND Flash)		64 MB (in NAND Flash)	
	Max Programming Screen	7999 Pages		7999 Pages	
	Max Macro Commands	Unlimited		Unlimited	
Display	Type	XGA TFT LCD	XGA TFT LCD	WVGA TFT LCD	WSVGA TFT LCD
	Size	12"	15"	7"	10.1"
	Max. Resolution	1024 x 768	1024 x 768	800 x 480	1024 x 600
	Max. Colors	65,536 colors (16-bit)		65,536 colors (16-bit)	
	Luminance (cd/m ²)	500	350	1000	1000
Backlight Life (hrs)	LED, 20,000		LED 30,000		
Touchscreen		4-wire analog resistive		4-wire analog resistive	
Communication Interface	COM1	RS-232 (DB9 Female)	RS-232 (DB9 Female)	RS-232 (5-Pin Terminal)	RS-232 (5-Pin Terminal)
	COM2	RS-422/485 (DB9 Female)	RS-422/485 (DB9 Female)	RS-485 (5-Pin Terminal)	RS-485 (5-Pin Terminal)
	COM3	RS-485 (DB9 Female)	RS-485 (DB9 Female)	Optional	Optional
	Ethernet (RJ-45)	10/100-Base-T Ethernet	10/100-Base-T Ethernet	2 x 10/100-Base-T Ethernet	2 x 10/100-Base-T Ethernet
I/O	USB Client	✓	✓	✓	✓
	USB Host	✓	✓	✓	✓
	Power Isolation	✓	✓	✓	✓
Power Supply Input Voltage		24 V _{DC} ± 10%		24 V _{DC} ± 10%	
Power Consumption		20 W	20 W	20 W	20 W
Dimension (W x H x D)		335.4 x 245.8 x 60.3 mm	399.1 x 297.6 x 57.3 mm	202.9 x 147.9 x 39.2 mm	270.9 x 212.9 x 46.8 mm
Cut-Out Dimension (W x H)		302 x 228.5 mm	384.5 x 283 mm	192 x 138.5 mm	259.5 x 201.5 mm
Front Panel Thickness		6 mm	6 mm	6 mm	7.2 mm
Enclosure		Die-cast aluminum alloy front bezel		Die-cast aluminum alloy front bezel + PC	
Weight (Net)		2 kg (4.41 lb)	3 kg (6.61 lb)	0.9 kg (1.98 lb)	1.7 kg (3.75 lb)
Reliability Certification	Operating Temperature	-15 ~ 65°C (5 ~ 149°F)		-25 ~ 75°C (-13 ~ 167°F)	
	Storage Temperature	-20 ~ 70°C (-4 ~ 158°F)		-30 ~ 80°C (-22 ~ 176°F)	
	Humidity	95% RH @ 40°C		95% RH @ 40°C	
	Vibration Protection	5 ~ 500 Hz (X, Y, Z directions, 1 Grms, 1 hour per axis)		5 ~ 500 Hz (X, Y, Z directions, 1 Grms, 1 hour per axis)	
	Ingress Protection	Front Panel IP66		Front Panel IP66	
	CE	EN 61000-6-2, EN 61000-6-4		EN 61000-6-2, EN 61000-6-4	
	EMI	FCC Part 15 Class A		FCC Part 15 Class A	
UL	UL-61010-1, UL-61010-2-201		UL-61010-1, UL-61010-2-201, CID2		

✓ : supported, - : not supported, △ : optional