NBM-D88NN



8 discrete input and output channels to add non-network PATLITE signaling devices to an equipment network

Email Alerts – Send emails to up to 8 addresses per alert notification

Supports SNMP, HTTP, PNS (Developed by PATLITE), Socket Transmission command protocols

Use a web browser to send commands via the Hypertext Transfer Protocol (HTTP)

Ping up to 24 nodes or devices on your network

Built-in "Clear" button for quickly reverting the NBM to its initial state once an alert is confirmed

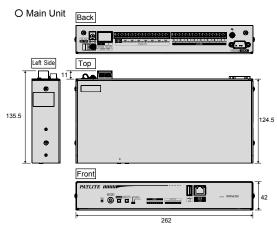
Optional Parts

Optional Parts	Model
Server Rack Angle Mount	NBM-ANG
AC Adaptor	ADP-001

Specifications

	Item	Specifications		
	Model	NBM-D88NN		
Main Uni	it Rated Voltage	24V DC		
AC	Rated Voltage	100 - 240V AC (50/60Hz)		
Adaptor	Operating Voltage Range	90 - 264V AC (50/60Hz)		
	Consumption	14W		
Operation 7	Temperature Range	0 to 40°C (no freezing, no condensation)		
Storage Te	emperature Range	- 20 to 65°C (no freezing)		
Operat	tion Humidity	20 - 80% RH (no condensation)		
Insulation	on Resistance	Between current carrying metallic part and non-current carrying metallic part: 500V DC 10MΩ or more		
	and Voltage	Between current carrying metallic part and non-current carrying metallic part: 1500V AC 10mA or less (for one minut		
	n Resistance		9.8m/s2	
VIDIGIO	n recolotarioe	LAN communication		
		Physical Layer: Ethernet (IEEE 802.3 compliant) 10BASE-T / 100BASE-TX (auto-negotiation) Connector type RJ-45 8-pin		
	munication		Data Link Layer: CSMA/CD method	
n	method		Network Layer: IP, ARP, ICMP	
			Transport Layer: TCP, UDP	
		Application Layer: HTTP, NTP, Socket (PHN, PNS) SMTP, SNMP (V1, V2C), DHCP, DNS, POP3, RSH		
		Number of Contacts	8 points	
Nor	n Voltago	Contact rating	Port 1-7: 125V AC, 3A/30V DC, 3A Inrush Current 5A or less Minimum current 1mA (reference value) Minimum voltage 5V DC (reference value)	
	tact Output		Port 8: 125V AC, 3A/30V DC, 3A Inrush Current 78A or less (TV-5 ratin Minimum current 10mA, Minimum voltage 5V DC	
	nally Open ontact)			
	Contact)	Supported Wire Diameter	Solid Wire: ϕ 0.4 - 1.2mm (AWG26-16) Stranded Wire: 0.2 - 1.25mm (AWG24-16)	
		Wire connection method	Screwless Terminal Block	
		Input specifications	D88N (NPN model)	
		Supported number of input contacts	Non-Voltage Contact, NPN transistor	
_		Number of Contacts	8 points	
Contact input (Normally Open	Contact rating	Output ON current 6mA or less per port Voltage between terminals when OFF: 24V		
Contact)		Supported Wire Diameter	Solid Wire: ϕ 0.4 - 1.2mm (AWG26-16) Stranded Wire: 0.2 - 1.25mm (AWG24-16)	
		Wire connection method	Screwless Terminal Block	
US	SB (host)	USB2.0/1.1 TYPE-A 1 port for log data storage, firmware update For config data upload / download		
Pow	ver output	, i		
	•	50	crew terminal block, 1 point, 24V DC±10% Maximum 200mA Extended Functionality	
D-sub 9-pin LED Display Area G		Cross LED 4	· · · · · · · · · · · · · · · · · · ·	
Operation		FMO Diversit	Select Switch, Reset Switch, Clear Switch, Mode Switch	
	Standard EMC Directives (EN55032 (Class A), EN55024), RoHS Directive EN50581, FCC Part15 Sub part B Class			
Mounting location		Indoors		
Mounting Methods		Stationary, EIA rack mount (optional part)		
Mount	Aounting direction Upright		· •	
Mass	Main Unit	1150g		
	AC Adaptor		165g	
	ction Rating		IP20	
Accessory			AC Adaptor, Instruction Manual, 4 rubber feet	
Optional Parts			Server Rack Angle Mount	

Dimensions (mm)



Server Rack Mounting



Server Rack Angle Mount NBM-ANG (optional)

AC Adaptor



AC Adaptor ADP-001 (optional)

Monitoring Function



PING monitoring

Active/inactive monitoring of up to 24 nodes.



TRAP monitoring

SNMP Manager function is included.

The unit can determine down to variable-bindings.
 You can register 16 groups (4 nodes per group).



Application Monitoring

You can run active/inactive monitoring with the application's send

(Maximum 4 nodes)

- Server monitoring
- Printer problem detection
- Server/PC

application monitoring



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Command Transmission



RSH command transmission (8)

You can create RSH commands suitable for events.



SNMP, TRAP transmission (8)

You can send SNMP / TRAP suitable for events.



SOCKET Transmission

You can send commands of up to 30 bytes



Send up to 8 emails

You can create titles and body text suitable for events.
POP / SMTP authentication supported.

- Control network equipment
- Event notifications to monitoring server
- Send PHN / PNS commands, and so on.



Command Control



You can control digital output with the generic protocol RSH.



PHN compatible commands supported Control of digital output possible with 2-byte commands.

PNS commands supported

By using PNS commands, you can control digital output.



You can control digital output with HTTP commands.

Execute command (port 1: ON, port 3: OFF, Other: no operation) http://192.168.10.1/api/control?/alert=19099999

- Server command control
- Receive PHN/PNS Commands
- Control commands from network camera



* PHN/PNS commands are proprietary control commands.

Contact Input/Output



Digital input: 8 points



Digital output: 8 points

With 8 input terminals and 8 output terminals, you can independently control various equipment that have input contacts.



The converter has one 24V output.
You can connect the converter with various notification equipment, such as Revolving Lights and audio equipment



You can get the log from USB memory.
You can get settings from USB memoy, or apply settings to USB memory.

- Contact inputs from sensors
- Contact outputs to notification equipmen
- Control with contact outputs, and so on.



Trivit No commands are proprietary control commands

Condition Setting function

It can be set up with a detection condition of a digital input.



The output condition setup is combined with input signal time progression.



The output condition setup is combined with the number of input channels for a logical condition.



The output condition setup is combined with the increase of frequency signal inputs.

By setting up the operation when detection conditions are met, it can be used for various environments and applications.

(Notications according to preset temperatures, using a temperature sensor; notication of the infrared sensor, specied by area, etc.)

The duration condition, AND condition and number condition can be set.

Available condition setting function operations

Digital Output Control	The digital output will be ON or OFF.	
RSH Command Transmission	Sends the remote shell command to the device at the set address	
Socket Transmission	Sends the PHN/PNS Command to the device at the set address	
Trap Transmission	Sends the SNMP trap to the device at the set address	
F-mail Transmission	Sends the F-mail to the set mail server	