Drawing No.	Rev.	Page
NBM-D88NN-W18	C	1 / 5

## **SPECIFICATIONS**

Model: NBM-D88NN

**PATLITE** Corporation

Drawing No.	Rev.	Page
NBM-D88NN-W18	С	2 / 5

		L		
Model		NBM-D88NN		
Rated Voltage		24VDC		
Operating Voltage Range		Rated Voltage ±10%		
Rated Current Max.		0.6A		
Consumpti	ion			
	bient Temperature	0°C to +40°C		
	Ambient Humidity	20 - 80% (No condensation)		
	pient Temperature	-20 °C to +65°C		
	mbient Humidity	Less than 80% (No condensation)		
	ing Location	Indoors		
	ng Direction	Upright		
	ction Rating	IP 20 (IEC 60529)		
	n Resistance	9.8m/s² (IEC 60529)		
	lerance ±10%)	1.15kg		
Outer	Dimensions	Refer to the Outer Dimension Drawing		
		RoHS Directive (EN IEC 63000)		
Conform	nity Standards	FCC Part 15 SubpartB Class A		
Comorm	nity Standards	CAN/CSA C22.2 UL/CSA 60950-1		
		EMC directive (EN 55032 (ClassA),EN 55035)		
Commun	ication Method	Ethernet (Conforms to the IEEE 802.3)		
l —	Physical Layer	10BASE-T/100BASE-TX (Auto-negotiation • Full Duplex/Half Duplex)		
	ata Link Layer	CSMA/CD		
	Network Layer	IP•ARP•ICMP		
	ransport Layer	TCP•UDP		
	· ·	HTTP-SNMP(V1,V2c)-RSH-SMTP-NTP		
Ap	plication Layer	POP3 DNS Socket(PHN PNS) DHCP		
	USB Port	USB2.0/1.1 TYPE-A 1ch		
Interface	Serial Port	RS232C D_SUB_9P(Used for expanding additional functions)		
Power Output		One screw Terminal Block 24VDC±10%, maximum 200mA		
	tal Output	Non-voltage contact output; "A" contact (setup can be changed for "B" contact)		
	nber of Contacts	8		
		(30V DC @ 3A) inrush current under 5A		
	antant Cananita	Minimum (1mA, 5VDC,Reference)		
	ontact Capacity	(30V DC @ 3A) inrush current under 78A (TV-5 rating)		
		Minimum (5V DC, 10mA) *		
\ \ \	Vire Diameter	Solid Wire:φ0.4-1.2mm (AWG26-16) /Stranded Wire:0.2-1.25mm2 (AWG24-16)		
V	Viring Method	Screwless Terminal Block		
Dig	ital Input	Non-voltage Contact		
Nur	nber of Contacts	8		
T	ransistor Input	NPN Transistor		
	antact Canacity	Output "ON" current @ 6mA or less per channel.		
	ontact Capacity	Terminal OFF condition Voltage: 24V		
Wire Diameter		Solid Wire:φ0.4-1.2mm (AWG26-16) /Stranded Wire:0.2-1.25mm2 (AWG24-16)		
V	Viring Method	od Screwless Terminal Block		
Input Reaction Time		110msec or more		
Output Response Time		200msec or less		
Display Part		18 green LED (power, status, DO x8 Contacts, DI x8 Contacts)		
Operation Part		"Select" Switch, "Reset" Switch, "Clear" Button, "Mode" Switch		
Accessory		Rubber Feet		
Optional Parts		Server Rack Mounting Bracket (NBM-ANG)		
		Conforms to the CE requirements		
R	emarks	When connecting a product with a large inrush current, such as a revolving light etc., wire it to output terminal Port 8.		

Drawing No.		Page
NBM-D88NN-W18	C	3 / 5

	[Fanctional Specifications] act is controlled by contact input information, or by software commands.Moreover, when a control contact output and command transmissions with it's network monitoring function		
Digital Output	External instruments are connected and the contacts are controlled for ON/OFF output		
Digital Input	The status condition of a non-voltage contact input can be detected.  When detection occurs, the following operations will be executed:  Digital Output ON/OFF, RSH Command Transmission, PNS/PHN Socket  Transmission, E-mail Transmission, SNMP TRAP Transmission		
"CLEAR" Button	When pressing the "Clear" button, the following actions are executed: Digital output ON/OFF (a default is turned off), E-mail transmission, RSH command transmission, PNS/PHN socket transmission, SNMP TRAP transmission		
"Reset" Switch	The product is rebooted.		
TRAP Transmission	An SNMP TRAP (V2C) is sent when an event occurs.		
TRAP Reception	When an SNMP TRAP is received, the following operations are executed: Digital Output ON/OFF, RSH Command Transmission, PNS/PHN Socket Transmission, E-mail Transmission, SNMP TRAP Transmission		
E-mail Transmission	Sends an E-mail when an event occurs. (up to 8 addresses).		
E-mail Transmission	Sends an RSH command when an event occurs.		
RSH Command Reception	When an RSH command is received from an external device, it controls the ON/OFF of the digital output and acquires the contact status.		
Socket Reception	When receiving a PNS or PHN command, it controls the ON/OFF of the digital output		
Socket Transmission	When an event occurs, it sends a PNS or PHN command.		
Test Function	The RSH command for checking operation. The Digital Output operates in sequential orde		
Ping Monitoring	The PING Command is sent to an external device to check it's connection status.(Max. 24		
Application Monitor	The operation status of a working application to an external device can be checked.		
Data Log	A status log and operation log are saved.(Transmission to syslog server / Save to US memory)		
SNMP SET/GET	The digital output can be controlled, contact information can be acquired, traps can be sent and received. (MIB file application) (V1, V2C)		
Time Correction	Automatically correct time (register and connect to an NTP server)  The time correction is reflected on the PC.		
"Select" Switch	The operation for each mode can be determined.		
Web Setup Tool	The tool necessary for making various settings on the WEB screen.		
PNS/PHN	Remote control of NHL Series and PHN series with Socket Communication and		
Series Control Function	PNS/PHN control signal.		
Xml Function	Obtain the data for the Input/Output contact status in xml format.		
PNS Manager Function	It corresponds to the PNS manager (Network Setup Application).		
Initialization Function	=Web Setup Tool= Factory default. Initialization other than Network Setup. = "Mode" Switch = Network Setup initialization. Factory default. Password initialization.		

	Drawing No.	Rev.	Page
N	IBM-D88NN-W18	С	4 / 5

Mode Change	Change to the following mode with the "Mode" Switch.  0. Normal Mode  1. Configuration Download Mode  2. Configuration Upload Mode  3. Network Setting Initialization Mode  4. Factory Default Mode  5. Reserved  6. Firmware Update Mode  7. Password Initialization Mode  8. Reserved  9. Reserved  * Initialization : Return to factory default setup.		
Configuration Data Setup	Save / write setting information with W	/eb setup tool and USB memory.	
		gically set between the "A" contact or "B" contact.	
Contact Status Display	The contact status is displayed on the		
USB	Log data can be stored onto USB memory (storage place can be changed to internal memory or USB memory). Update firmware onto USB memory Upload/download Configuration data		
Firmware Update	Update using the Web Setup Tool Update using a USB memory		
Digital Input Condition Setup	Setup the digital input detection method to the following method.  AND detection: It detects when specified multiple digital inputs turn ON.  Number of Detection Times: Detects when the digital input is turned ON for the specified number of times.  Continued Detection Duration: Detects when the digital input continues to be ON for the specified time.		
	[Recommended AC Adaptor Speci		
	Voltage	24V DC ±5%	
	Current	0.75A to 1A max	
DC Output	Plug Length	9.5mm or more 10mm dia. or less	
	Plug Length Plug Connector Outer Diameter	5.5mm dia	
	Plug Connector Inner Diameter	2.1mm dia	
		9.5	

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