

Models

RPB11 (1 BACnet port) RPB12 (2 BACnet ports)

Description

The RPB BACnet router interconnects the different BACnet network technologies such as BACnet MS/TP and BACnet IP/Ethernet to form a BACnet internetwork. It is available with 1 or 2 BACnet MS/TP ports and a RJ45 connection for IP services. All the network management settings can be configured via the embedded web server.

Features

Power

24Vac or 24Vdc supply

Installation

- Up to 32 or 64 BACnet devices without the use of additional line drivers
- Simple web-based configuration for BACnet IP and MS/TP communication
- Connect using expansion slot to convert CMMB100E and CMMB102E as IP I/O cards
- Support up to 3 mini I/O cards in any combination and make them IP ready while maintaining the MS/TP ports for BACnet routing

Specification and Installation Instructions



RPB Series

Network Communication

- BACnet MS/TP, IP or Ethernet
- Select MAC address via DIP switch or via network

BACnet MS/TP

- MS/TP @ 9600, 19200, 38400, 57600, 76800 or 115200 bps
- Automatic baud rate detection
- Automatic device instance configuration

BACnet IP / BACnet Ethernet

- All IP / Ethernet configuration via on board web page.
- Supports DHCP or fixed/static addressing

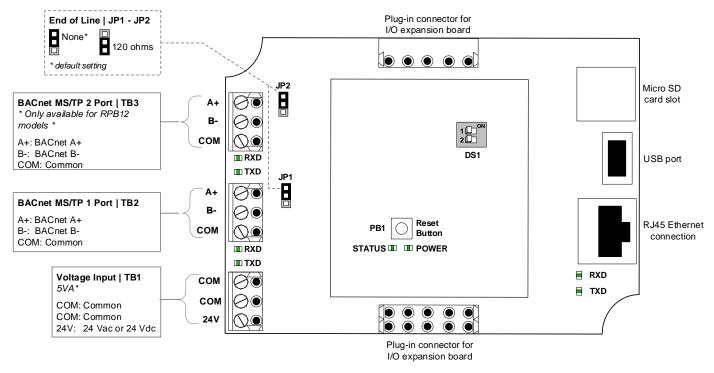
Technical Specifications

Specifications	RPB Series		
Input Voltage	24Vac or 24Vdc		
Consumption	5VA		
BACnet	BACnet® MS/TP @ 9600, 19200, 38400, 57600, 76800 or 115200 bps		
Communication Connections	24 AWG twisted-shield cable (Belden 9841 or equivalent)		
Electrical Connections	0.8 mm ² [18 AWG] minimum		
Operational Temperature	0°C to 50°C [32°F to 122°F]		
Storage Temperature	-30°C to 50°C [-22°F to 122°F]		
Relative Humidity	5 - 95% non condensed		
Weight	0.2 kg [0.4 lb]		
Dimensions A = 3.18" / 81 mm B = 4.93" / 125 mm C = 2.27" / 58 mm			



Connections and Configurations

Please note that all jumper settings must also be set to the same value through BACnet.



LEDs

Power

On = Input voltage normal

Off = No power

Status

Flashing = Normal operation (watchdog)

RX/TX (BACnet)

Flashing = Receiving (RX) and/or transmitting (TX) data.

Network Settings



CAUTION: Connect the device to a secure network with a strong firewall protection, in order to prevent unauthorized access to the system.

All settings for network management can be made through the local web page of the router.

The default IP address of the router is 192.168.1.100.

• If the newly set address is lost or the currently assigned IP address of the device cannot be remembered, reset the router using the push button on the top board.



Web Page Configuration

Using the currently assigned IP address, load the local web page.

- Using the Login button, access the Login screen and enter the password 8432 to access all of the properties of the module.
- Under the General Settings tab, information about the Physical IO, Network, Communication and System can be accessed.

neptronic	BACnet Rou	ter	
n Screen		General Settings	
Name	BACnet Router Default Location	Object name	Present Value
ion	BACnet Router	Physical IO	
stance	153010	Dip Switch 1 (AV.42)	1
		Dip Switch 2 (AV.43)	3
ne ber	BACnet Router BACnetR20191120	Reset Button (BI.1)	0#
on	2.02.202206271521	Status LED (BO.2)	Priority tab Off
n Version	0.06.20220627	Power LED (BO.1)	
		Power CED (BOXT)	Priority tab On
lime tus	2022-11-21 09:26:57 Operational	▼ Network	
103	operational	DeviceInstance (PIV.1)	153010
ms:		♥ BACnetMSTP1	
		MSTP1RxValid (PIV.16)	٥
c		MSTP1Rxinvalid (PIV.17)	0
c .	0	MSTP1RxLost (PIV.18)	0
×.	0	MSTP1Tx (PIV.19)	2887
		MSTP1TxLost (PIV.20)	0
		MSTP2RxValid (PIV.41)	0
		MSTP2RxInvalid (PIV.42)	0
		MSTP2RxLost (PIV.43)	0
		MSTP2Tx (PIV.44)	2663 0
		MSTP2TxLost (PIV.45) BACnet IP	0
		IPORxValid (PIV.21) IPORxInvalid (PIV.22)	8
		IPORKLost (PIV.23)	0
		IPORCESE (PIV.23)	8
		IP0TxLost (PIV.25)	0
		▼ Communication	
		DHCP Enable (BV.9)	The second se
		StaticAddress (CSV.26)	Inactive 192.168.001.125
		ActualAddress (CSV.30)	192.168.001.125
			192100001120
		▼ System	
		SystemStatus (MV.1)	Operational
		VendorName (CSV.2) ModelName (CSV.3)	Neptronic BAGnet Router
		Core Version (CSV.4)	BAUNEX MOUTER 2.02.02.02.02.02.02.15.01
		Application Version (CSV.5)	0.06202067
		SerialNumber (CSV.8)	BACretR20191120
		ProfileName (CSV.9)	Default
		MCULoad (AV.10)	10.5%
		MemoryLoad (AV.11)	48.9%
		System Reset Reason (MV.4)	Pin
		 Extended Configuration 	
		UTCOffset (AV.2)	-300min
		DaylightSavingsStatus (BV.1)	No
		LocalDateTime (DTV.2)	Time Synch 2022-11-21 09:26:57



Integration

Under the Integration tab, information about all the network settings can be accessed.

aneptronic	BACnet Route	er		9 •
Main Screen		General Settings Integration Super User		
		General Settings Integration Super User		
eviceName ocation	BACnet Router Default Location	Object name	Pre	sent Value
escription	BACnet Router	▼ Network		
eviceInstance	153010			
lodelName	BACnet Router	DeviceName (CSV.1)		net Router
erialNumber ore Version	BACnetR20191120 2.02.202206271521	Location (CSV.6)		ult Location
pplication Version	0.06.20220627	Description (CSV.7)		net Router
ocalDateTime	2022-11-21 09:27:44	DeviceInstance (PIV.1)	1530	210
ystemStatus	Operational			
ctive Alarms:		Http Server Units (MV.7)	Metr	de la companya de la
		BACnetServer Sthematic applies (BV 26)		
o:: STP1MAC	0	Ethemet enable (BV.26) BACnetMSTP1	enab	Je
STP2MAC	0	MaxMaster (AV.24)	127	
		MaxinfoFrames (AV.25)	1	
		Network (AV.27)	1	
		Auto Baud Rate (BV.6)	No	
		Baud Rate (MV.11)	1920	0
		MSTP1MAC (AV.44)	0	
		♥ BACnetMSTP2		
		MaxMaster (AV.159)	127	
		MaxinfoFrames (AV.160)	1	
		Network (AV.162)	4	
		Auto Baud Rate (BV.25)	No	
		Baud Rate (MV/43)	1920	0
		MSTP2MAC (AV.45)	0	
		V BACnet IP		
		Network Number (AV.30)	2	
		BacnetiP Port (PIV.50)	4780	18
		♥ BACnet Ethernet		
		Communication		
		♥ IP Settings		
		DHCP Enable (8V.9)	Inact	tive
		Reset IP Settings (BV.10)	No	
		StaticAddress (CSV.26)	192.1	168.001.125
		StaticSubnetMask (CSV.27)	255.2	255.255.000
		StaticDefaultGateway (CSV.28)	192.1	168.001.001
		StaticDnsServer (CSV.29)	192.1	168.010.050
		ActualAddress (CSV.30)	192.1	168.001.125
		ActualSubnetMask (CSV.31)	192. 255.	255.255.000
		ActualAddress (CSV30) ActuaSubretNess (CSV31) ActuaDefaulGateway (CSV32) ActuaDefserver (CSV32)	192. 255. 192.	68001125 5325500 68001001 6801050
		ActuaSubnetMask (CSV.31) ActuaDefaultGateway (CSV.32) ActuaDefaultGateway (CSV.33) © Ethernet Settings	192. 255. 192. 192.	255.255.000 168.070.001 168.070.050
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		ActuaSubnetMask (CSV.31) ActuaDefaultGateway (CSV.32) ActuaDefaultGateway (CSV.33) © Ethernet Settings	192. 255. 192. 192.	255.255.000 168.070.001 168.070.050
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		ActualSubmetMask (5V33) ActualDetwoRtemey (5V32) ActualDetsSterrer (5V33) ♥ EthernelStettings EthernelMasAdd (5V33) ♥ System Red State (NV11) MaSTP1MAC (AV44) ♥ BAcnetMSTP2 MasNater (AV159)	192.2 255 193. 193. 193. 193. 193. 193. 193. 193.	255.255.000 (680.070.050 (48.8.55.16
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		ActualSubmetMask (SV33) ActualSubmetMask (SV33) ActualDeterminy (SV32) ActualDeterminy (SV32) ActualDeterminy (SV32) ActualDeterminy (SV32) EthermetMacAdd (SV33) ▼ System Mask Sets (MV11) MSTF1MAC (AVA4) ▼ Back Ref (MV11) MSTF1MAC (AVA4) ▼ Back Ref (MV13) Mashtoff rames (AV160) Network (MV162) Auto Baud Rate (BV25) Baud Rate (BV25) Baud Rate (BV25) Baud Rate (BV30) ▼ BACnett (P Network (AV160) Network (AV160) Network (AV160) Network (AV160) Back Ref (NV30) ▼ BACnett (P Network (AV160) Network (AV160) Back Ref (NV30) ▼ Back Ref (BV30) ▼ Back Ref (BV10) StaticSubmetKakk (CSV27) StaticSubretKakk (CSV20) StaticSubretKakk (CSV30) ActualSubretKakk (CSV30) ActualSubretKakk (CSV30) ActualSubretKakie (CSV30)	192.2 192.3 192.5 192.5 192.5 192.5 192.5 192.5 192.5 192.5 192.5 19	55.255.000 168.010.050 168.010.051 169.010.50 169.010.50 10 10 10 10 10 10 10 10 10
		ActualSubmetMask (SV33) ActualSubmetMask (SV33) ActualDefaulSteiney (SV32) ActualDefaulSteiney (SV33) Cheme Settings EthernelMacAdd (SV33) V System Baud Rate (MV11) MSTP1MAC (AVA4) V Baud Rate (MV13) Mashted Rate (MV13) Mashted Rate (MV33) Backet (MV33) Mashted Rate (MV33) Backet Paret (MV33) V Communication V IP Settings DHCP Enable (MV4)	192.2 192.3 192.5 192.5 192.5 192.5 192.5 192.5 192.5 192.5 192.5 19	552 255 000 168 01 001 169 01 005 169 01 169 0 1
		ActualSubmetMask (SV33) ActualSubmetMask (SV33) ActualDefactUsteres (SV33) ActualDefactUsteres (SV33) ♥ EthemeEMAscAdd (SV33) ♥ System Bool Rate (NV13) Bool Rate (NV13) MastP1MAC (AV.44) ♥ BACnetMSTP2 MashIndFames (AV.150) MashIndFames (AV.150) Network (VV150) Auto Baol Rate (AV.25) Baol Rate (AV.25) Baol Rate (AV.30) Network (AV.150) Network (AV.150) Network (AV.150) Network (AV.150) Network (AV.150) Baol Rate (AV.30) Baoler (BV.30) ♥ BACnet IP Network Namber (AV.30) Baoler (BV.30) ♥ BACnet Ethemet ♥ Communication ♥ IP Settings DI-CP Enable (BV.9) StaticSubmetMask (SV.27) StaticSubmetMask (SV.30) ActualSubmetMask (SV.30) ActualSubmetMask (SV.30) ActualSubmetMask (SV.30) ActualSubmetMask (SV.30) ActualDefactIntSettere (SV.30) P EthermetSettings	192.2 192.3 192.5 192.5 192.5 192.5 192.5 192.5 192.5 192.5 192.5 19	552 255 000 168 01 001 169 01 005 169 01 169 0 1
		ActualSuberMask (SV33) ActualSuberMask (SV32) ActualDestratereny (SV32) ActualDestratereny (SV32) ActualDestratereny (SV32) ActualDestratereny (SV32) ActualDestratereny (SV32) ActualDestratereny (SV32) Peterentsettings EthernetMacAdd (SV33) ▼ System ActualDestraterentsettings Baud Rate (MV11) MastridDestraterentsettings MaskindDestraterentsettings	192.2 19	55.255.00 168.01.001 168.01.0050 169.01.0050 00 00 10 10 10 10 10 10 10 1
		ActualSubmetMask (SV33) ActualSubmetMask (SV32) ActualDestorer (SV33) ActualDestorer (SV33) C EthernelMasAdd (SV33) ▼ System Baud Rate (MV31) Mask (MV32) Baud Rate (MV31) Mask (MV31) Mask (MV32) Baud Rate (MV33) Mask (MV32) Baud Rate (MV33) Mask (MV33) Mask (MV33) Baud Rate (M	192. 192.	55.255.00 168.07.030 168.07.039 0 0 10 10 10 10 10 10 10 10
		ActualSubmetMask (SV33) ActualDersterer (SV33) ActualDersterer (SV33) ActualDersterer (SV33) ♥ EthernelMasAad (SV33) ♥ System ■Bod Rafe (NV11) MotSTEMAC (AV44) ♥ BACnetMSTP2 Mashidster (AV159) Mashidster (AV159) Mashidster (AV159) Network (AV150) Network (AV150) Bad Rafe (IV13) MitSTP1AC (AV44) ♥ BACnetMSTP2 Mashidster (AV159) Mashidster (AV159) Network (AV150) Bad Rafe (IV13) MitSTP1AC (AV45) ♥ BACnet (IP Network Nuther (IV130) Bacneti IP Network Nuther (IV130) Bacneti IP Network Nuther (IV130) Bacneti IP Part (IV130) ♥ BACnet (IP Network Nuther (IV130) Bacneti Part (IV130) ♥ SaticAdares (SV130) SaticAdares (SV130) SaticAdares (SV130) ActualBacher (SV130) P Setting BitementMack2022222222222323 ActualBacher (SV130) ActualBacher (SV130) P Setting BitementMack2022222222222222222222222222222222222	192.2 19	55.255.000 168.010.050 160.01.050 160.01.050 10 10 10 10 10 10 10 10 10 10 10 10 10
		ActualSubmitMask (SV33) ActualSubmitMask (SV33) ActualDufferency (SV32) ActualDufferency (SV33) ActualDufferency (SV33) ActualDufferency (SV33) Chines Settings EthernetMacAdd (SV33) Work Settings Bud Res (WV11) MSTP1MAC (AVA4) Bud Res (WV13) Mashter (AV150) Back Res (VV13) Mashter (AV150) Back Res (VV13) Mashter (AV150) Back Res (VV13) Mashter (AV150) Back Res (VV130) Back Res (VV130) Back Res (VV130) Back Res (VV10) Back Res (SV10) StaticBuertMask (SV10) StaticBuertMask (SV130) ActualSubertMask (SV130) ActualSubertMask (SV130) ActualSubert	192.2 192.3 192.5 192.5 192.5 192.5 192.5 192.5 192.5 192.5 192.5 192.5 192.5 192.5 192.5 192.5 192.5 19	55.255.00 168.010.05 168.010.05
		ActualSuberMask (SV33) ActualSuberMask (SV32) ActualDestorer (SV33) ActualDestorer (SV33) CEbernelStanz EthernelMacAdd (SV33) V Distanz (SV33) Maskater (W133) Maskater (W133) Maskater (W133) Mastroframes (W140) V Distanz (W143) Backet (W133) Backet (W133) <t< td=""><td>192.2 193.2 193.2 194.2 195.2 19</td><td>55.253.000 168.010.050 AA.X8255.16</td></t<>	192.2 193.2 193.2 194.2 195.2 19	55.253.000 168.010.050 AA.X8255.16
		ActualSubmetMask (SV33) ActualDefaulSteiner (SV33) ActualDefaulSteiner (SV33) ActualDefaulSteiner (SV33) ♥ EthemeEMAschad (SV33) ♥ System Bool Rate (MV11) MaSTEMAC (MV44) ♥ BaCnetMSTP2 Mashafer (MV150) Mashofframs (AV160) Network (W150) ActualBack (AV25) Back Rate (MV13) Mashofframs (AV160) Network (W150) ActualBack (AV44) ♥ BACnet (BV Network (M150) Network (M150) Back Rate (MV33) Mashofframs (AV10) Network (M150) Back Rate (MV30) Back Rate (MV30) Back (MV30) ♥ BACnet (B Network (M150) Network (M150) ♥ Back (M150) Back (M150)	192.2 19	552 553 000 168 0 10 050 168 0 10 050 168 0 10 050 10 10 10 10 10 10 10 10 10 10 10 10 10
		ActualSubmitMask (SV33) ActualSubmitMask (SV33) ActualDefacilitiency (SV32) ActualDefacilitiency (SV33) ActualDefacilitiency (SV33) ActualDefacilitiency (SV33) ActualDefacilitiency (SV33) Pethene Settings EthernetMacAad (SV33) V Baud Rate (MV11) MSTPTIMAC (AVA4) V Baud Rate (MV13) Mashteface (AV150) Baud Rate (MV130) Mashteface (AV150) V Backet (P Network Number (AV30) Backare (P(NV30) V Backare (P(NV30) V Backare (SV130) V Backare (SV130) StaticSubmerMask (SV17) StaticSubmerMask (SV17) ActualAddress (SV130) ActualAddress (SV130) Actual	192.2 193.2 193.2 194.2 195.2 19	552 553 000 168 0 10 050 168 0 10 050 168 0 10 050 10 10 10 10 10 10 10 10 10 10 10 10 10
		ActualSuberMask (SV33) ActualSuberMask (SV33) ActualDestruitStewn (SV32) ActualDestruitStewn (SV33) ActualDestruitStewn (SV33) Chinesterm (SV33) Chinesterm (SV33) EthernetMacAdd (SV33) Posterm Baud Rate (MV31) Mashingt (MV31) Mashingt (MV31) Mashingt (MV31) Mashingt (MV31) Mashingt (MV33) Mashingt (MV33) Mastrice (MV33) Backet (MV33) Backet (MV33) Backet (MV33) Backet (MV33) Backet (MV33) Backet (MV30)	192.2 19	552 553 000 168 07 0.050 168 07 0.050 168 07 0.051 169 07 000 100 100 1010 1011 1011 1011 1011 1011 1011 1011
		ActualSubmetMask (SV33) ActualSubmetMask (SV33) ActualDetwork(SV33) ActualDetwork(SV33) ActualDetwork(SV33) ChitenesSettings EthernetMaskad (SV33) V Bud Rate (NV11) MSTP1MAC (AV.44) Bud Rate (NV13) Mashteen (NV15) Backnet (P Backnet (P Backnet (P Backnet (P Mashteen (NV15) Backnet (P Mashteen (V15) Backnet (P Backnet (P Backnet (P Backnet (P Backnet (P	192.2 192.3 192.5 192.5 192.5 192.5 192.5 192.5 192.5 192.5 192.5 192.5 192.5 192.5 192.5 192.5 192.5 192.5 192.5 19	55.253.00 168.010.05 169.010 169.010 169.010 169.010 169.010 169.01 169.01 169.01 169.01 169.01 169.01 169.01 169.01 169.01 169.01 169.01 169.01 169.01 169.01 169.01 169.0
		ActualSuberMask (SV33) ActualDefaulSteiney (SV32) ActualDefaulSteiney (SV33) ActualDefaulSteiney (SV33) ♥ EthernetMacAdd (SV33) ♥ System Made asser MV11) MSTP1MAC (AVA4) ♥ BaCnetMSTP2 Makafer (AV150) Makinforfames (AV150) Makinforfames (AV150) Makinforfames (AV150) Makinforfames (AV150) Makinforfames (AV150) Makinforfames (AV150) Makinforfames (AV150) Makinforfames (AV150) Makinforfames (AV150) Back Bate (BV23) Back Bate (BV23) Back Bate (BV23) Back Bate (BV33) MSTP21AAC (AVA5) ♥ BACnet IP Network Number (AV30) Backet Por (BV130) ♥ BACnet Ethernet ♥ Communication ♥ IP Settings DHCP Enable (BV9) Reset IP Settings DHCP Enable (SV30) SaticGueret (SV24) SaticGueret (SV24) SaticGueret (SV24) SaticGueret (SV23) ActualSuberet (SV23) ActualSuberet (SV23) ♥ System Reset Pactore (SV23) ActualSuberet (SV23) ♥ System Reset Pactore (SV23) ♥ System R	192.2 193.2 19	55.253.00 168.010.050 44.3825516
		ActualSubmetMask (SV33) ActualSubmetMask (SV33) ActualDetwork(SV33) ActualDetwork(SV33) ActualDetwork(SV33) ChitenesSettings EthernetMaskad (SV33) V Bud Rate (NV11) MSTP1MAC (AV.44) Bud Rate (NV13) Mashteen (NV15) Backnet (P Backnet (P Backnet (P Backnet (P Mashteen (NV15) Backnet (P Mashteen (V15) Backnet (P Detwork (P Backnet (P Backnet (P Backnet (P	192.2 192.3 192.5 192.5 192.5 192.5 192.5 192.5 192.5 192.5 192.5 192.5 192.5 192.5 192.5 192.5 192.5 192.5 192.5 19	55.253.00 168.010.050 169.010.50 169.010.50 169.010.50 10 10 10 10 10 10 10 10 10



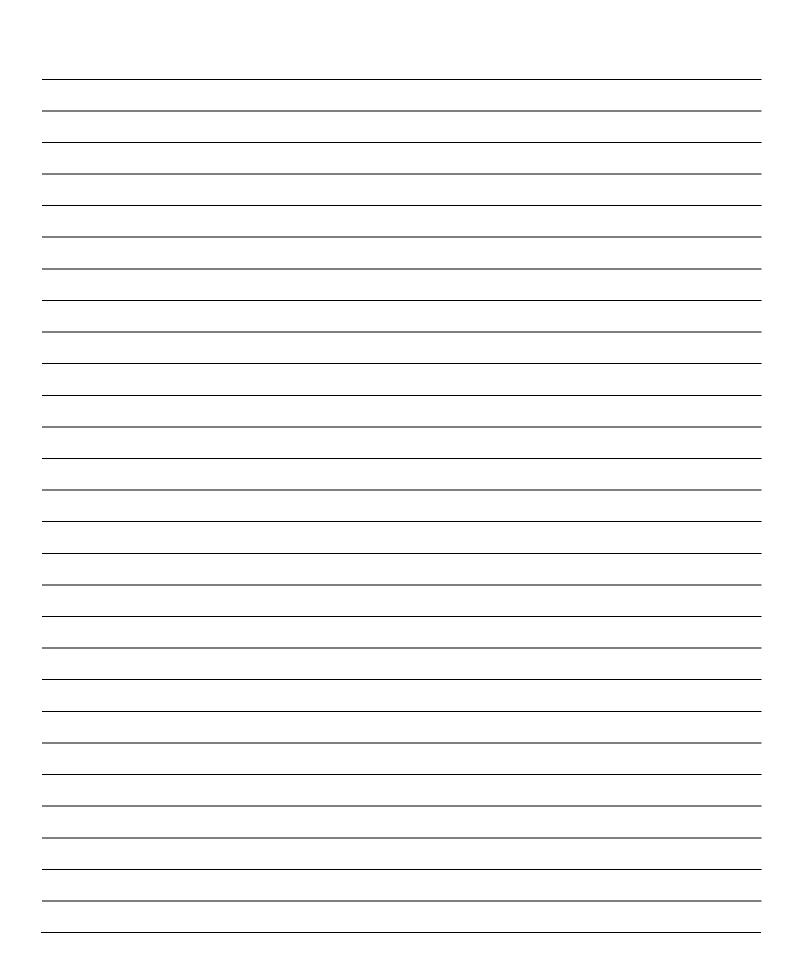
Super User

Under the **Super User** tab, information about the Diagnostic, Quick Configuration, Network and Communication settings can be accessed.

1ain Screen		General Settings Integration Super User		
viceName ation	BACnet Router Default Location	Object name	Present Value	
cription	BACnet Router	▼ Diagnostic		
ceinstance	153010	System Reboot Count (AV.12)	7	
elName	BACnet Router	System IWDG Reset (AV.13)	0	
Number	BACnetR20191120	System POR Reset (AV.14)	3	
lersion	2.02.202206271521	System BOR Reset (AV.15)	0	
ation Version	0.06.20220627	System PIN Reset (AV.16)	2	
lateTime	2022-11-21 09:28:25	System SFT Reset (AV.17) System WWDG Reset (AV.18)	2	
nStatus	Operational	System LPW Reset (AV.19)	0	
		SD Mount Fail Count (AV.20)	0	
Alarms:		USB Mount Fail Count (AV.237)	0	
		Memory Card (BV.3)	OK	
IMAC	0	USB Device (BV.64)	Ok	
2MAC	0	 Quick Configuration 		
		SystemLagVerbaseLevel (MV.6)	Debug	
		SystemLoginterface (CSV.18)	IP1:192.168.100.100:2971	
		▼ Network		
		▼ BACnetServer		
		BACnetServerEventQ (PIV.26)	30	
		IsRouting (BV.5)	Yes	
		♥ BACnetMSTP2		
		IsRouting (BV.24)	Yes	
		♥ BACnet IP		
		Is Routing (BV.7)	Yes	
		▼ Communication		
		V UART1		
		BaudRate (MV.15)	19200	
		WordLength (MV.16)	8 bit	
		StopBits (MV.17)	1	
		Parity (MV.18)	None	
		♥ UART2		
		BaudRate (MV.19)	19200	
		WordLength (MV.20)	8 bit	
		StopBits (MV.21)	1	
		Parity (MV.22)	None	
		V UART3	a constanting of the second	
		Baudrate (MV.23)	38400	
		WordLength (MV.24)	8 bit	
		StopBit (MV.25)	1	
		Parity (MV.26)	None	
		▼ System		

SystemLoginterface (CSV.18)	IP1:192.168.100.100:2971	
V Network		
BACnetServerEventQ (PIV.26)	30	
▼ BACnetMSTP1		
IsRouting (BV.5)	Yes	
IsRouting (BV.24)	Yes	
is Routing (BV.7)	Yes	
▼ Communication		
V UART1		
BaudRate (MV.15)	19200	
WordLength (MV.16)	8 bit	
StopBits (MV.17)	1	
Parity (MV.18)	None	
V UART2		
BaudRate (MV.19)	19200	
WordLength (MV.20)	8 bit	
StopBits (MV.21)	1	
Parity (MV.22)	None	
♥ UART3		
Baudrate (MV.23)	38400	
WordLength (MV.24)	3 tid 8	
StopBit (MV.25)	1	
Parity (MV.26)	None	
▼ System		
✓ Device		
Vendorldentifier (AV.1)	153	
VendorName (CSV.2)	Neptronic	
ModelName (CSV.3)	BACnet Router	
SerialNumber (CSV.8)	BACnetR20191120	
Save Factory (BV.57)	No	
Password Level 8 (PIV.3)	8432	
Password Level 7 (PIV.4)	7654	
Extended Configuration		
ManufacturingDate (DV.1)	2017-01-01	
WarrantyRegistered (DV.3)	2017-01-01	
WarrantyActivated (DV.4)	2017-01-01	

Notes	
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