

## TECHNICAL BULLETIN AtoN IX10 to Drake Lighting Installation Manual

Product:	12003052 - AtoN IX10 Modem Kit for Drake Lighting Installation Manual
Brand(s):	SPX AtoN (All Brands)
Effective Date:	January 13, 2024
Part Affected:	12003051 - AtoN IX10 Modem Kit for Drake Lighting
Issued By:	Joshua Crowne, Manager, Systems and Solutions Engineering

This bulletin is issued to provide a method of procedure for installing a IX10 modem into a Drake Lighting system. When there is no communication with the modem at a Drake/Technostrobe site you will need to replace the Drake WR11 modem with a AtoN IX10 modem. This kit comes with the parts needed for this. The parts included are below.

51001525	AtoN IX10 Modem	DIGI
PWR-5VDC-BOOST	DC-DC Boost Converter	
HAR-IX10-PWR	Power Cable for IX10 Modem	
ITL-9700-MOD	MON-9700 Modem board assembly	
HDW-F362-500	Flush Mount Screws	1
HDW-NYL6-313	Nylon Spacers	
HDW-0632-31S	Panhead Screws	L.
HDW-BUTT-BLU	Butt-splice	

## INSTALL INSTRUCTIONS

- 1. Turn off the power to the lighting system using the external breaker.
- 2. Remove the WR11 Modem.

The WR11 modem can be found in 2 different places shown below.



- 3. Install a Verizon SPX AtoN SIM Card (**51001526)** into the IX10 modem using SIM card slot one.
- Install the ITL-9700-MOD where the WR11 was mounted using 4 HDW-NYL6-313 and 4 HDW-F362-500 spacers and screws.
- 5. Install the IX10 Modem onto the ITL-9700-MOD using 3 HDW-0632-31S screws.
- 6. Remove the WR11 Power cable from the SNMP Enabler board and remove from the lighting system.



- 7. Connect the PWR-5VDC-BOOST- DC-DC Boost Converter (IN SIDE) to the SNMP Enabler board
- 8. Mount the PWR-5VDC-BOOST- DC-DC Boost Converter using the double-sided tape to the lighting system.



- Connect the HAR-IX10-PWR Power Cable for IX10 Modem to the PWR-5VDC-BOOST- DC-DC
   Boost Converter (OUT SIDE) using the two HDW-BUTT-BLU Butt-splices and the IX10 Modem
- 10. Connect the antenna to the IX10 Modem.
- 11. Connect the Ethernet cable to the IX10 Modem.



12. Power the lighting system with the external breaker.

13. Verify the IX10 Modem LEDs are: (Please wait 10 minutes for the modem to come online)

PWR	BLUE
SIM	GREEN
LTE	BLUE
1	GREEN
2	GREEN
3	GREEN
4	GREEN or OFF
5	GREEN or OFF

If the modem does not come up on the network, switch the SIM card to a AT&T SPX AtoN SIM Card (**51001527**) and repeat step 13. If it doesn't you need to call SPX technical support.

14. Take a screenshot of the web GUI modem status page. This will need to be sent to SPX in the closeout to record the IP Address and signal strength.

<ul> <li>Digi IX10 - AtoN-0X10 - 002704</li> <li>+</li> </ul>				
← → C O Not secure https://192.168.1.1/mode	m/?device=modem			
	Details		Status	
	Configuration Name IMEI Model Firmware Revision SRU USB Port Speed	Modem 865167063226668 EG35-G EG356G8807A08M2G_01.002.01.003 EG356G8807A08M2G N/A 480 Mbps	State Access Mode CMT Signal Strength Band Carrier Carrier PLMN UTE RSRP UTE RSRP UTE RSRP UTE RSRS UTE SNR	✓ Connected     46     47     26% (-07.08m     82     Verizon     311480     -117.0.48m     -50.0.46m     10.6.46m
	SIM		Location	
	SIM Slot SIM Present IMSI ICCID SIM Provider SIM Provider PLMN	1 Ves 311270031909138 89146000008979739574 Veriton 311270	MCC MNC TAC CID	311 480 41225 41357594
	Phone Number	6292922350		
	Interface: Modem			*
	IPv4		IPv6	
	Address	10.241.0.4 /29	Status Address	O Disabled
	NTU	1428	Gateway MTU	N/A N/A

15. Connect the Ethernet cable from the laptop and to the Drake/Technostobe SNMP Enabler card.



- 16. Navigate your web browser to the IP address 192.168.1.25
- 17. Login to the Drake/Technostrobe web GUI
  - a. Username => super admin
  - b. Password => superadmin0!
- 18. Click on the 'Configuration Page' button.

		EN V
TECHNO STROBE	General Monitoring	Lighting system date & time : 11/27/2023 3:50:59 PM
(D		
System	Customer's Name	
	Site Name	SPX_AtsN
	Site Number	57K_143_05
	Equipment Count	Th(00000
	MAC Address	00.80.a3.ec.a3.0d
	Architecture Revision	11.00
	SNMP Revision	03.28
	HTML Revision	03.19
	Date & Time	11/27/2023 3:50:59 PM
	Day Twilight Night Auto	System Reboot Set Time
Identifier	Status Mode Level Des	
Epypement #1		Cription Equipment version
		ration Page

- 19. Click on the 'SNMP' menu item and change these settings to
  - a. Traps Primary Destination => 172.16.6.136
  - b. Traps Secondary Destination => 172.31.15.234
- 20. Click the 'Submit' button.

XPo	ort <sup>®</sup> Pro <sup>®</sup>		EVOLUTION OS
Status 🕼	SNMP		> [Logout] > [Technostrobe]
CLI CPM	State:	Enabled      Disabled	This page displays the current configuration of the SNMP Agent.
Diagnostics	Read Community:	<configured></configured>	
DNS	Write Community:	<configured></configured>	커티
Email	System Contact:	SPX-A2N	=
Filesystem	-		
FTP	System Name:	SPX-LAB-TS-SNMP	
Host	System Description:	SPX-LAB-TS-SNMP	
нттр	System Location:	SPX-LAB	
IP Address Filter	Traps State:	Enabled      Disabled	=
Line	Traps Primary Destination:	172.31.16.46	-
LPD			
Modbus	Traps Secondary Destination:	192.168.1.2	
Network		Submit	
PPP			
Protocol Stack			
Query Port RSS			
SNMP			
SSH			
SSL			
Syslog			
System			
Terminal			
TETP			
Tunnel			
VIP			
XML			

21. Verify that the change was successful and written to Flash.

Status 💮	SNMP		> [Logout] > [Technostrobe]
CLI	Changed SNMP Traps Secondary D	Destination to "102 168 1 2"	This page displays the current configuration of the SNMP Agen
СРМ	The changes have been written to F		contiguration of the SNMP Agen
Diagnostics DNS	State:	Enabled      Disabled	
Email			
Filesystem	Read Community:	<configured></configured>	
FTP	Write Community:	<configured></configured>	
Host	System Contact:	SPX-A2N	
нттр	System Name:	SPX-LAB-TS-SNMP	
IP Address Filter	System Description:	SPX-LAB-TS-SNMP	
Line	System Location:	SPX-LAB	
LPD			
Modbus	Traps State:	Enabled     Disabled	
Network	Traps Primary Destination:	172.31.16.46	
PPP	Traps Secondary Destination:	192.168.1.2	
Protocol Stack			
Query Port			
RSS			
SNMP			
SSH			
SSL			
Syslog			
System			
Terminal			
TFTP			
Tunnel			
VIP			

22. Connect with SPX AtoN NOC to onboard, test communication and test alarms.

- 23. The onboarding document can be found here: https://www.itl-llc.com/digi\_wr11/config/drake/onboarding
- 24. Verify with the NOC that they can communicate and onboard the lighting system.
- 25. Once onboarded put the SIM card sticker included with the SIM Card onto the IX10 modem so the ICCID and IP address can be easily identified in the closeout pictures and future needs. This sticker may be white or yellow with black text.



## CLOSEOUT PICTURES NEEDED

- Screenshot of modem homepage showing the Signal Strength and IP Address. (Previously Captured)
- 2. Picture of the modem with IP address clearly visible. (This is the label previously mentioned in step 24)
- 3. Picture of the modem serial label with serial number clearly visible. (Located on the back of the Digi WR11 Modem and Previously Captured)
- 4. Picture of the lighting system serial label with the serial number clearly visible.
- 5. Picture of the overall lighting system with the enclosure open.
- 6. Picture of the overall lighting system with the enclosure closed.
- 7. Pictures of the compound to show how it looked when you leave.
- 8. Picture of the access gate/s closed and locked when you leave.
- 9. Picture of the signage with the site identification clearly visible.
- 10. Send all these pictures in their highest quality to <u>AtoN.NOC@spx.com</u> with the Site ID in the subject.

Please contact our SPX AtoN NOC for Onboarding and Testing. They are available 24/7. Call 615-503-2228 (Flash Lighting)