

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	it is a second s
HDW-NYL6-313	Nylon Spacers	
HDW-0632-31S	Panhead Screws	Le
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.

Digi IX10 - AtoN-0(10 - 002704 × +				
← → 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 CKT1 Signal Strength Band Carrier PLMN UTE RSR0 UTE RSR0 UTE RSR0 UTE RSR1 UTE SSI UTE SNR	 ✓ Connected 46 UE 26% (-67.dBm 82 Vertoon 311460 -117.0.dBm -0.0.0.dB -93.0.dBm 10.6.dBm
	SIM		Location	
	SIM Slot SIM Present IMSI ICCID SIM Provider SIM Provider PLMN	1 Ves 311270031909138 89146000008979739574 Verizon 311270	MCC MNC TAC CID	311 480 41225 41357534
	Phone Number	6292922350		
	Interface: Modem			*
	IPv4		IPv6	
	Address	10.241.0.4 /29	Status Address	Disabled N/A
	MTU	1428	MTU	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	SPX_AtoN
	Site Number	SPICLAG_05
	Sile Number	Theorem
	MAC Addrase	00:90:52:66:52:04
	Architecture Devision	44.00
	Arumeuure Revision	
	SNMP Revision	03.28
	HTML Revision	03.19
	Date & Time	11/27/2023 3:50:59 PM
	nanent Day Twilight Night Auto	System Reboot
	Day Twilight Night	Set Time
Identifier Equiperent #1	Status Mode Level Des Ok Auto Night 0 LED-3-13 Password Events Configure	regulation Equipment version regulation control of 30 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	rt°Pro		EVOLUTION OS"
Status 🕼	SNMP		> [Logout] > [Technostrobe]
CLI	State:	Enabled Disabled	This page displays the current configuration of the SNMP Agent.
Diagnostics	Read Community:	<configured></configured>	
DNS	Write Community:	<configured></configured>	케이
Email	Surtem Contact	SPX-A2N	뤽티
Filesystem	System Contact.	JFA-AZIN	뤽ㅣ
FTP	System Name:	SPX-LAB-TS-SNMP	
Host	System Description:	SPX-LAB-TS-SNMP	
HTTP	System Location:	SPX-LAB	
IP Address Filter	Traps State:	Support O Displant	=
Line	Trans Delevery Destinations	473 24 46 46	-
LPD	Traps Primary Destination:	172.31.16.46	=
Modbus	Traps Secondary Destination:	192.168.1.2	
Network		Submit	
PPP			
Protocol Stack			
Query Port			
RSS			
SNMP			
SSH			
SSL			
Syslog			
System			
Terminal			
Tunnel			
NID			
VIP			11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
XML			

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

Status 🖓	SNMP		> [Logout]
CLI	Channed SNING Taxor Secondary	Destination to 1102 189 1 21	This page displays the current
CPM	Changed SNMP Traps Secondary Destination to "192.168.1.2". The changes have been written to Flash.		configuration of the SNMP Agen
Diagnostics			
NS	State:	Enabled Disabled	
mail	Read Community:	<configured></configured>	
ilesystem	Write Community:	<configured></configured>	
TP lost	System Contact:	SPX-A2N	
ТТР	System Name:	SPX-LAB-TS-SNMP	
P Address Filter	System Description:	SPX-LAB-TS-SNMP	
ine	Contras Lanakan		
PD	System Location:	SPA-LAD	
lodbus	Traps State:	Enabled Disabled	
letwork	Traps Primary Destination:	172.31.16.46	
pp	Traps Secondary Destination:	192.168.1.2	
rotocol Stack			
uery Port			
RSS			
NMP			
SH			
SL			
ysiog			
orminal			
ETD			
e tre			
Tunnel			

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)