| **To** | Meter Technicians | Date | 11/24/2020 |
| **From** | Parkeon Support | | |

| **Subject** | **4G UPGRADE: Modem and Antenna replacement** |

1   INTRODUCTION

1.1   Required parts and accessories

- Neops Version `V431` or higher software (if not `V401I` or higher, new software must be ordered and installed prior to completing this procedure, contact Parkeon Support)
- 4G modem assembly
- 4G Sim card
- 4G compatable Antenna assembly (call Parkeon Support if unsure of antenna version)

1.2   Overview / Context

This document is used to list the steps required to replace the installed 3G antenna with a 4G version suitable for high-speed data communications. This document assumes the 3G modem is already installed. For further reference, all actions are listed in the PARKEON STRADA Maintenance and Operation manuals. If any additional technical assistance is needed, please contact PARKEON Technical support at 1-800-732-6868 ext. 244

2   RETROFIT PROCEDURE

2.1   3G antenna Hardware Removal and 4g installation

The following actions are listed as they need to be performed at the machine.

Action	Description
01	Verify the software version by performing a OSP 990. The version will print out on the ticket. The software must be Neops `V431D` or higher.
02	Turn OFF the main power to the pay station.
03	Disconnect all connections to the main board and Remove the main board from the Strada rack assembly.
04	Remove the battery from the upper compartment in the pay station.
05	Remove the solar panel by unscrewing the 4 nuts connecting the solar panel to the housing of the pay station.
06	Unplug and remove the 3g antenna
07	Affix the antenna with the magnet to the top of the terminal and run the wire to the inside of the terminal the same way the 3g antenna wire was routed.
08	Remove the 3g modem from the main board
09	Attached the new 4g antenna with the sim card installed properly.
10	Reattach the solar panel to the pay station. Be sure to feed the solar panel cable through its cutout on the top of the machine first.
11	Reinstall the battery and mainboard, making all necessary connections, and turn on main power.
12	Proceed to the **3.1 OSP 80 – Peripheral initialization**

3 OSP (On Site Programming) PROCEDURES

3.1 80 – Peripheral initialization

Step	Display reads	Actions Required	Notes
1	Time	**Press orange maintenance activation switch on back of display**	
2	Enter Function Number 000	Enter 80, Press **V**	
3	Init MCB in progress/Init MCB OK	None	Initialization of MCB
4	Card reader Yes/No	Highlight "yes", press **V**	Card reader initialization
5	Modem Yes/No	Highlight "yes", press **V**	Modem initialization
6	Modem Wakeup Yes/No	Highlight "yes", press **V**	
7	Init. Code Yes/No	Highlight "yes", press **V**	
8	Secret Code	Press "**1996**", then **V**	
9	Power on modem	None	Modem power-up check
10	Initialization of the modem	None	Initialization
11	Check PIN code	None	Check PIN code on SIM
12	Change PIN code	None	Change PIN code on SIM
13	Registration network	None	SIM registration to AT&T network
14	Check configuration	None	Confirm configuration
15	Printer Present Yes/No	Highlight "yes", press **V**	Printer initialization
16	Numerical Keypad Yes/No	Highlight "no", press **N**	Numerical keypad not used

3.2 40 – Parkfolio/EPSUM Link Test

Step	Display reads	Actions Required	Notes
1	Time	**Press orange maintenance activation switch on back of display**	
2	Enter Function Number 000	Enter 40, Press **V**	
3	Neo Parkfolio Test Neo EPSUM Test	Select desired test, press **V**	Link tests to Parkfolio or EPSUM
4	Link Test OK		Displayed if machine is communicating normally. If any other message is displayed, check phone numbers via OSPs 44 (Parkfolio) and 64 (EPSUM).
PROCEDURE COMPLETE			