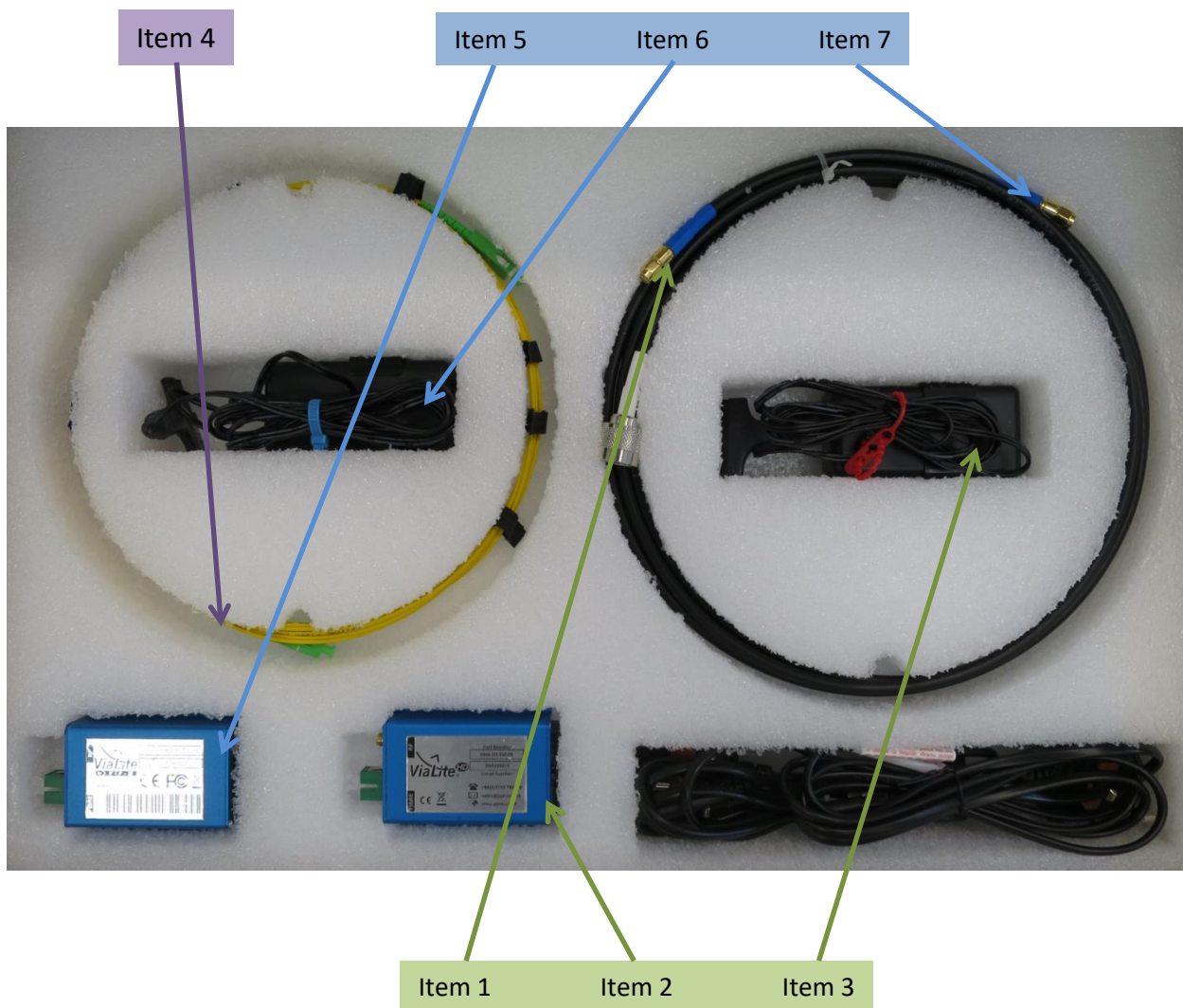


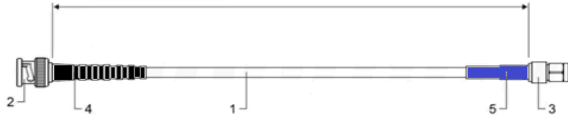





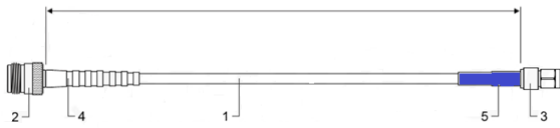

ViaLiteHD GPS over Fiber Extension Kit for *Microsemi* User Manual

Parts for *ViaLiteHD* GPS over Fiber Extension Kit for *Microsemi* S600/S650/S650 SAASM SyncServer P/N 093-15203-001. See following page for list and descriptions.



ViaLiteHD® – GPS over Fiber Extension Kit

Parts list for ViaLiteHD GPS over Fiber Extension Kit for *Microsemi S600/S650/S650 SAASM SyncServer* P/N 093-15203-001

Item	Visual part	Part number & description
1		P/N 55808 BNC Plug (black end) to SMA Plug (blue end) fitted between a Time Server and <i>ViaLiteHD</i> RF over fiber receiver – 1 meter long
2		P/N HRR-G1-8M-60 <i>ViaLiteHD</i> GPS RF over fiber receiver with alarm state pass through
3		P/N HPS-CS-3 & 93407 <i>ViaLiteHD</i> PSU & Power Cord
4		P/N F8R1/3 SC/APC to SC/APC fiber optic bench test cable – 3 meters long
5		P/N HRT-G1-8M-20-H1310 <i>ViaLiteHD</i> GPS RF over fiber transmitter with GPS antenna powering via RF connector
6		P/N HPS-CS-3 & 93407 <i>ViaLiteHD</i> PSU & Power Cord
7		P/N 55809 N-Type socket (white end) to SMA Plug (blue end) fitted between GPS antenna and <i>ViaLiteHD</i> RF over fiber transmitter – 1 meter long
8		P/N 55810 N-Type plug (white end) to N-Type plug (yellow end) fitted between 55809 and Lightning Arrestor. 1 meter long (only used with lightning arrestor)

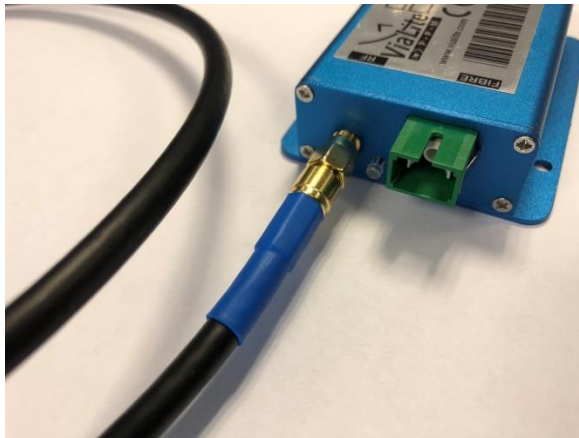
Green items in list located with S600/S650

Purple items in list are for bench testing only

Blue items in list are located near GPS antenna

Initial set assembly instructions 093-15203-001

- 1) Item identification
 - a. Items in the parts list where the item number is highlighted in **Green** are to be located with the S600/S650
 - b. Items in the parts list where the item number is highlighted in **Purple** are for bench testing only
 - c. Items in the parts list where the item number is highlighted in **Blue** are located near the GPS antenna
- 2) Unpack and check items 1, 2 and 3.
- 3) Attach the blue end of the cable (item 1) to the RF over fiber receiver (item 2).

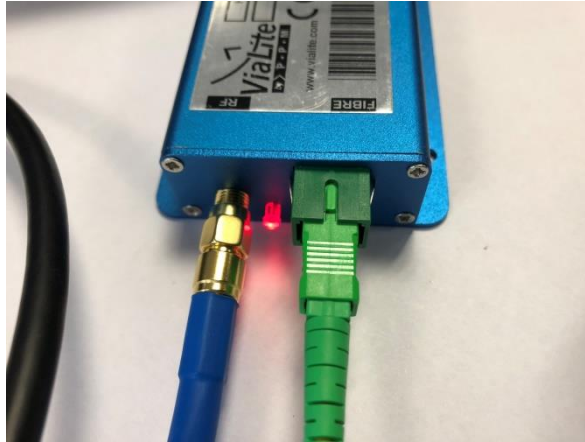


- 4) Connect the black end of the cable to the GPS input on the S600/S650.
- 5) Next connect the PSU (item 3) to the RF over fiber receiver (item 2) and plug in the PSU to a wall outlet. The RF over fiber receiver should now have a red LED light next to the connectors.



- 6) Unpack item 4 and remove the cover from one end of the fiber. Also remove the cover that is in the green connector on the RF over fiber receiver (item 2). Insert the fiber into the RF over fiber receiver (item 2) until you feel a click.

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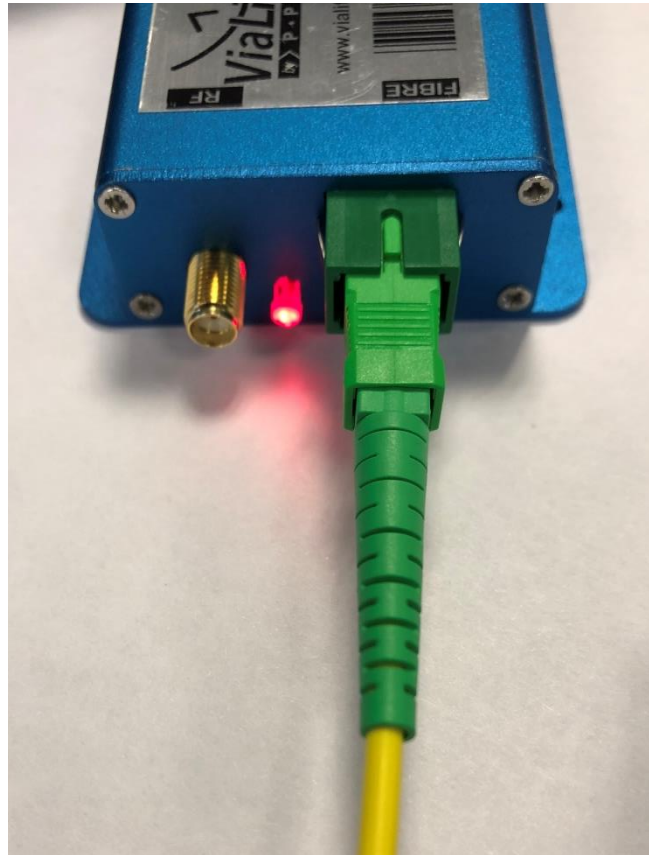


- 7) Unpack items 5, 6 and 7. Item 8 is required if a lightning suppressor is supplied, if not item 8 is unused.
- 8) Next connect the other end of the fiber (item 4) to the RF over fiber Tx (item 5); when inserted correctly you should feel a click.

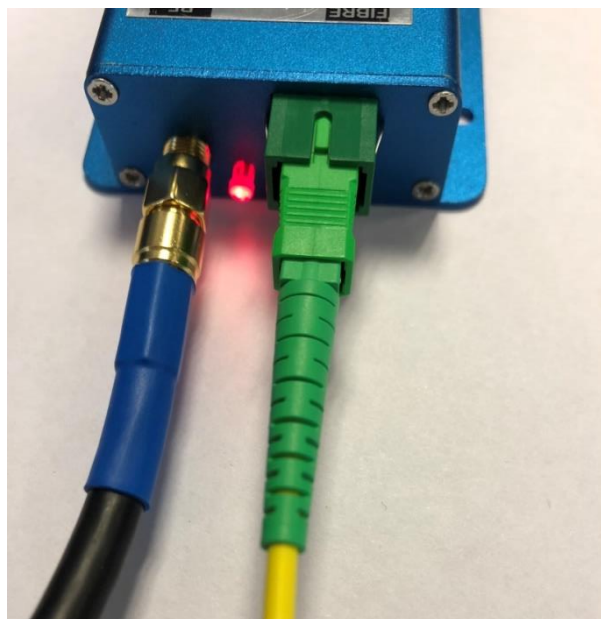


- 9) Connect the PSU (item 6) to the RF over fiber Tx (item 5) and plug in to a power outlet. At this point there should be a red LED on the RF over fiber Tx (item 5) and still a red LED on the RF over Fiber Rx (item 2). This is because the RF over fiber Tx is currently in FAULT mode through not being attached to a GPS antenna and not having switched on its laser.

ViaLiteHD[®] – GPS over Fiber Extension Kit



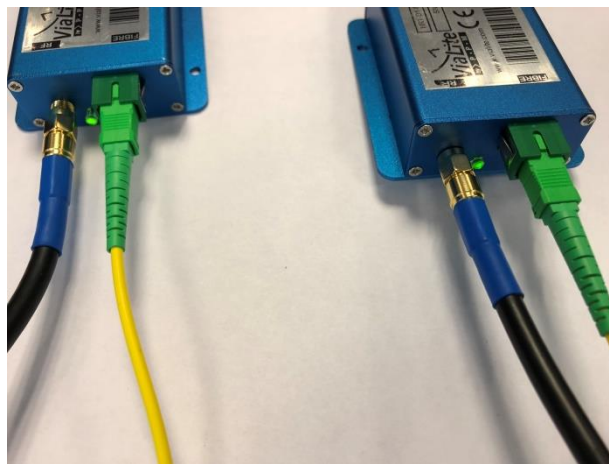
10) Attach the blue end of cable (item 7) to the RF over fiber Tx (item 5).



11) If you have a lightning suppressor go to step 13, if not continue to step 12.

ViaLiteHD[®] – GPS over Fiber Extension Kit

- 12) Now attach the white end of the cable (item 7) to your GPS antenna cable, you should see the LEDs on both the RF over fiber Tx (item 5) and Rx (item 2) become green. If your GPS antenna is outside, you should see the S600/S650 show GPS lock after a short warm-up time.
- 13) Take the white end of the cable (item 7) and attach it to the optional lightning suppressor. Attach the yellow end of the cable (item 8) to your optional lightning arrestor and attach the white end to your GPS antenna cable. You should then see the LEDs on both the RF over fiber Tx (item 5) and Rx (item 2) become green. If your GPS antenna is outside, you should see the S600/S650 show GPS lock after a short warm-up time.
- 14) You should now have a working RF over fiber GPS Link to your S600/650. The two ends of the system can now be unplugged from the bench test cable and attached to your fiber network.



- 15) If you have any difficulties, the **ViaLiteHD** RF over fiber manual can be found on our website www.vialite.com.