



A Tyco International Company

Digital Security Controls
3301 Langstaff Road
Concord, Ontario Canada L4K 4L2

Tele: 905 760 3000
Toll Free: 888 888 7838
www.dsc.com

12/12/2016

Model: WS900-29; FCC ID: F5316WS90029

List of component changes for UA707 from Rev. 02 to Rev. 04

1. Schematic page 3 – Change of connector type from plug-in to spring loaded. This is to accommodate new user replaceable battery [no impact to RF performance of the WS900-xx]
2. Schematic page 7 – removed R130, 131 [noise reduction for connection to plug-in cellular communicator module, no impact to RF performance of the WS900-xx)
3. Schematic page 9 – removed R116, R118, R126, R128 and R129, add L18, L19, L23 and L35, changed R100 to ferrite bead. All changes made to improve noise affecting sensitivity of the plug-in cellular communicator module, no impact to RF performance of the WS900-xx)
4. Schematic page 11 – C99 value changed from 1.2pF to 1.5pF [fine tuning of the antenna based on the new PCB. No impact to fundamental or harmonics of the RF circuits used on WS900-xx]

List of board layout changes for UA707 from Rev. 02 to Rev. 04

1. Layout Change page 1
 - a. Shield can option for SOM and STM now being used. This provision has been always available so no changes in the layout, but the diagram shows which shield can provision is being used - total of 2 on top side.
 - b. Ground under the SOM facing the mainboard is extended to reduce DDR noise emission and also the trace on the mainboard near the DDR is rerouted to avoid DDR noise coupling.
 - c. Trace leading to Wi-Fi antenna had open ground. This ground near the trace is tightened to avoid noise coupling.
2. Layout Change Page 2
 - a. Ground under the Ethernet RJ45 connector is made uniform to reduce noise.
 - b. Shield can used on the latest revision is shown. Again this provision was already available on Rev02, but the diagram shows that the board will be populated with these two shield cans.
3. SOM UA710 Rev. 02
 - a. Top side – change matching component C44, C46 – fine tune for new PCB
 - b. Bottom Side – add more ground connection pads to the main board.

Should you have additional questions regarding this matter please do not hesitate to contact me directly.

Your truly,

Dan Nita
Approvals Manager
Ext. 2706