

# NEWSLETTER 1.2

December 2020

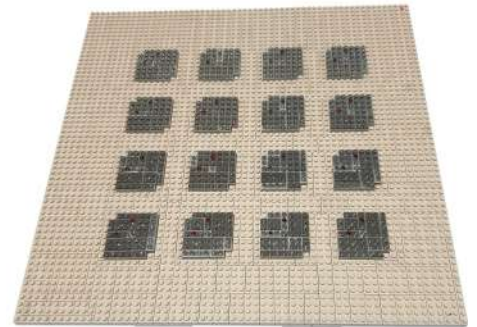
## The 2nd Anten'it Newsletter

We expand the capabilities of our kits with our customers' requests:

### Sub-6 5G Dual-Port 16 Element Patch Antenna Array for Samsung Research America

3.5 GHz MIMO Antenna Array for 5G is designed for Samsung Research USA.

This 5G Antenna is a 16 element dual port patch antenna array. Each patch antenna element has 2 ports, therefore there are 32 ports in this antenna array.



### Summary of Content

- We expand Anten'it kits with our customers requests.
- 3.5 GHz MIMO Antenna for Sub-6GHz 5G Antenna Array Application
- Microwave Training Kit in R&D Phase
- Dual-Port Conical Horn Antenna Experiment
- Our New Distributors



**Anten'it Microwave Training Kit is in research and development phase.**

**Anten'it expands its capabilities from antennas field to microwave passive components field.**

Microwave Training Kit will include passive waveguide and microstrip components working with the Anten'it concept. Students will design their own passive components directly in front of a network analyser, measure S-parameters and iterate their design to reach the technical requirements.

By combining the antenna and passive microwave components, researchers will be able to build the complete RF Front End with Anten'it components. This will be a complete solution for RF engineers.



**Dual-port Conical Horn Antenna Experiment is added to the antenna design experiments of the Antenna Training Kit.**

**The number of antenna types in Anten'it Antenna Training Kit increases everyday.**

Antenna Training Kit is the only kit with antenna design teaching capabilities. Students can design the antennas by using analytical calculations or via a simulation tool. Students build the antennas during the time-limited antenna laboratory lectures and measure antenna parameters. They iterate their design directly in front of a network analyzer by adding or removing cells or changing their design. Depending on the antenna specifications, the experiments guide students to learn different antenna parameters.

They both learn the antenna parameters and how the antennas work.

In order to understand the behaviour of complex antennas, antenna engineers need to know the elementary antennas very well. Antenna design experiments show students to change frequency, S-parameters, bandwidth, aperture, gain etc. parameters. This interactive teaching concept is a perfect solution for active learning.



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