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The Viasat Ka-band solid-state, fully-electronic phased array flat panel antenna is ready to begin the final stages of testing on the SES 03b mPOWER constellation. The system

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entered the Test Readiness Review (TRR) stage of the program. TRR is the final stage of testing to verify compliance with the antenna's performance requirements.

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A phased array is two or  
more antennas used together

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to provide some desired  
characteristic or feature  
not available with a single  
antenna. An array is usually  
a collection of multiple  
antennas arranged in a  
matrix of rows and columns  
or some other pattern.

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Figure 3 shows an example using 16 square patch antennas on a PCB. The antennas in the matrix are individually fed units, but collectively they work together as a single antenna. The backside of the

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In phased array antennas,  
this phase front is adjusted  
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Individual control of the phase excitation of each radiating element. The phase shifters are electronically actuated to permit rapid scanning and are adjusted in phase to a value between 0 and  $2\pi$  rad. - Time-delay

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Viasat revealed Tuesday that its phased array flat panel antenna, which was selected by SES for the O3b mPower satcom system in 2018, has entered the Test Readiness Review (TRR) stage. TRR is

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the final stage of testing to verify compliance with the antenna's performance requirements. Viasat expects the first phased array prototype to be delivered to SES early in 2021.

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In antenna theory, a phased array usually means an electronically scanned array, a computer-controlled array of antennas which

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creates a beam of radio waves that can be electronically steered to point in different directions without moving the antennas.. In a simple array antenna, the radio frequency current from the

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Some phased array antennas cannot be physically realized such as the isotropic antenna but are still conceptually useful you can build and analyze systems using both types of antennas in an identical

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