

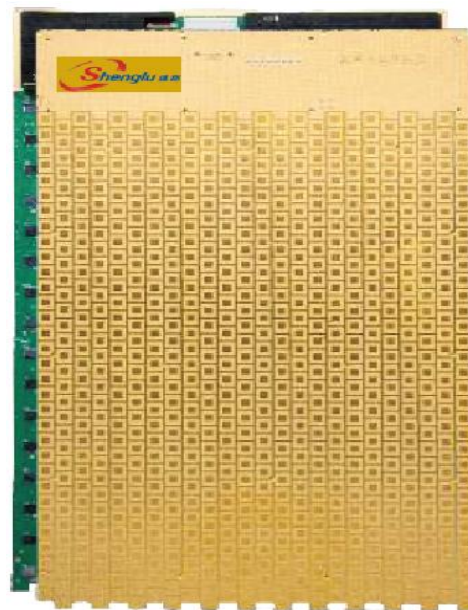


# Phased array antenna series product

## PRODUCT INTRODUCTION

Name : millimeter wave phased array antenna assembly

Series: SL-PhAA



| K band 1024-Element receiver subarray                     |                           | SL-PhAA-A1024R             |   |
|---|---------------------------|----------------------------|---|
| <b>Sub-array indicator parameters</b>                     |                           |                            |   |
| <b>Receiving Frequency</b>                                | 17.7GHz ~21.2GHz          | <b>Beam sweep</b>          | Azimuth Angle: 0°~360°,<br>Off-axis Angle: 0°~60° |
| <b>The first sidelobe</b>                                 | -12dB @0°                 | <b>Polarization</b>        | LHCP/RHCP   |
| <b>Number of channels</b>                                 | 1024                      | <b>Axial ratio</b>         | ≤3dB@0°, ≤5.5dB @60°                              |
| <b>G/T*</b>   | 7dB/K@0°,<br>2.5dB/K @60° | <b>Beam width</b>          | 3.4°@0°   |
| <b>Interface characteristic</b>                           |                           |                            |   |
| <b>RF interface</b>                                       | SSMA-KFD24/50Ω            | <b>Control interface</b>   | J30J-21ZKWP1-J                                    |
| <b>Physical dimensions and electrical characteristics</b> |                           |                            |   |
| <b>Apparent dimension</b>                                 | 290mm×224mm×13mm          | <b>Input voltage</b>       | DC+12V (11V ~13V)                                 |
| <b>Weight</b>   | 0.68Kg                    | <b>Power consumption</b>   | ≤45W  |
| <b>Environmental index</b>                                |                           |                            |   |
| <b>Working temperature</b>                                | -40°C~+70°C               | <b>Storage temperature</b> | -55°C~+85°C                                       |

\*G/T The air noise temperature is 60 K