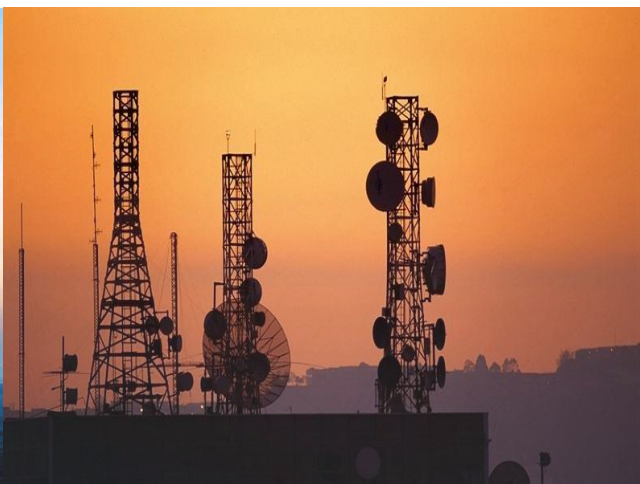




## Solid State Power Amplifier Introduction

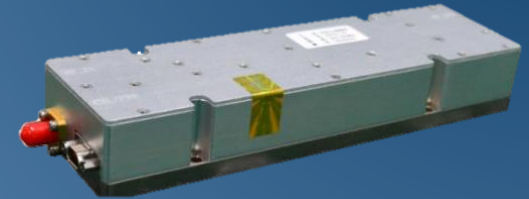
2020





## Up to 18GHz Amplifiers

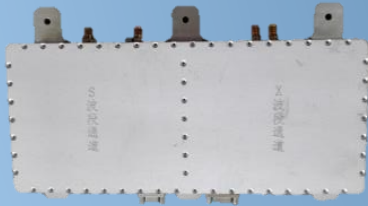
Frequency Range(MHz)	Gain(dB)	Psat (W)	Power Supply (V)
2700~6200	50	50	+28
2500~6500	45	100	+28
7900~8400	45	40	+12
8000~12000	50	100	+28
8000~12000	50	200	+28
8000~12000	50	400	+28
13500~14500	50	50	+24
13750~14500	45	25	+28
13750~14500	50	40	+24
13750~15350	50	120	+28
1000~18000	65	10	+28
2000~18000	37	5	+28
6000~18000	55	50	+28
6000~18000	60	120	+28
6000~18000	60	200	+28
10000~18000	50	100	+28
10000~18000	50	200	+28
12000~18000	50	100	+28
12000~18000	50	200	+28



Note : Many more solutions available in different frequencies and power levels, please ask for inquiry.



## Up to 18GHz Amplifiers



### 2.7GHz~6.2GHz 50W

- Input signal : pulsed (50% max. duty cycle)
- Application: missile-borne (-40~+50°C)
- MTPF:  $\geq 2000$ h
- Peak power:  $\geq 47$ dBm
- Gain:  $\geq 50$ dB
- Small signal gain:  $\geq 60$ dB
- Modulation depth:  $\geq 90$ dBc
- Power efficiency:  $\geq 25\%$
- Dimension: 230\*150\*50 mm



### 8GHz~12GHz 50W

- Input signal: pulsed (50% max. duty cycle)
- Application: missile-borne (-40~+50°C)
- MTPF:  $\geq 2000$ h
- Peak power:  $\geq 47$ dBm
- Gain:  $\geq 50$ dB
- Small signal gain:  $\geq 60$ dB
- Modulation depth:  $\geq 90$ dBc
- Power efficiency:  $\geq 25\%$
- Dimension: 160\*45\*19 mm



## Up to 18GHz Amplifiers



### 13.5GHz~14.5GHz 50W

- Input signal: CW
- MTPF:  $\geq 2000$ h
- P1dB:  $\geq 47$ dBm
- Gain:  $\geq 50$ dB
- Small signal gain:  $\geq 60$ dB
- 3<sup>rd</sup> Order intermodulation:  $\geq 35$ dBc@7dB total back-off from P1dB
- Power efficiency:  $\geq 20\%$
- Dimension: 196\*84\*18 mm



### 6GHz~18GHz 100W

- Input signal: pulsed and CW compatible
- Application: test & measurement(-40~+50°C)
- Psat.:  $\geq 51$ dBm
- Gain:  $\geq 55$ dB
- Small signal gain:  $\geq 70$ dB  $\pm 2$ dB
- Power efficiency:  $\geq 15\%$
- ALC accuracy:  $\pm 0.5$ dB
- Second harmonic:  $\geq 12$ dBc
- Control interface: local control





## Solid State Power Amplifiers

Skylink offers end-to-end RF & Microwave solutions for customers worldwide across a wide range of markets. The solid state power amplifier extends a broad frequency range from 0.5MHz to 50GHz and provides output power up to multi-kilowatts. Our staff intent to use the cutting-edge technology of RF power amplification to produce rugged, power efficient, and cost-effective solutions. It is our priority to design and deliver high quality products which address customer system and business requirements.

As a professional Hi-tech manufacture, quality first is our commitment to customers. In order to make sure that our products is highly qualified, we continue to invest heavily in purchasing specialized test equipment and all our products are 100% ESS tested. The strict incoming material inspection process guarantees all used material are qualified and all our products are guaranteed for 2 years after shipped from factory.

Skylink's SSPAs solutions cover from low power PA modules to high power BUCs.



### Communication SSPA

Satellite Communication  
Scatter Communication  
Telecommunication  
UAV TT& C Data Link



### Radar SSPA

Ground Based  
Shipboard  
Airborne  
Commercial & Military



### Broadband SSPA

Electronic Warfare  
EMC Test  
RCS Test  
Radar Simulator



## About Us

Chengdu Skylink Intellitech Co.,Ltd (Short named Skylink Microwave) was funded in 2015 by a group of experienced veterans in RF/Microwave industry for over 20 years individually. It is dedicated to providing state-of-the-art technology and uniformly high quality microwave components and assemblies to customers worldwide for both communication and test markets. It is our commitment to provide customers high reliability and field proven products to fulfill or exceed customers' needs and expectation. Our vision is to be a leading supplier of RF/MW components and assemblies in global market.

With the effort of our highly skilled R&D team, we have developed several product lines covering frequency from DC to 50GHz. Our custom engineered service helped customers to design the most complex products meeting the most exigent requirements. The advanced test equipment and the stringent quality control system assured product's quality and reliability.

Skylink was ISO9001 approved and all our products meet ISO9001 standard.

## Product Lines

- SSPAs
- High power SSPAs
- BUCs/Transceivers
- Filters
- Diplexers/Multiplexers
- Switched filter banks
- Up Converters
- Down Converters
- BUCs/LNBs
- Pin Diode switches
- High power Pin Diode switches
- Switch matrices

## Advantages

- Fast delivery from prototype : 6~8 weeks
- Cost-effective solutions
- Raw material expertise selection
- High quality and reliability
- Custom design available