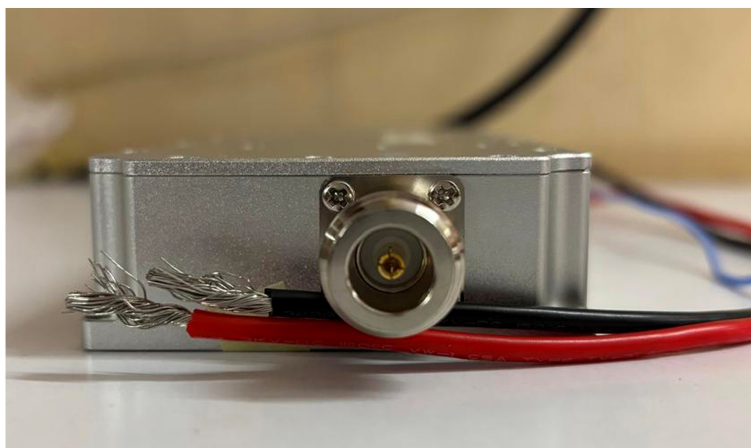
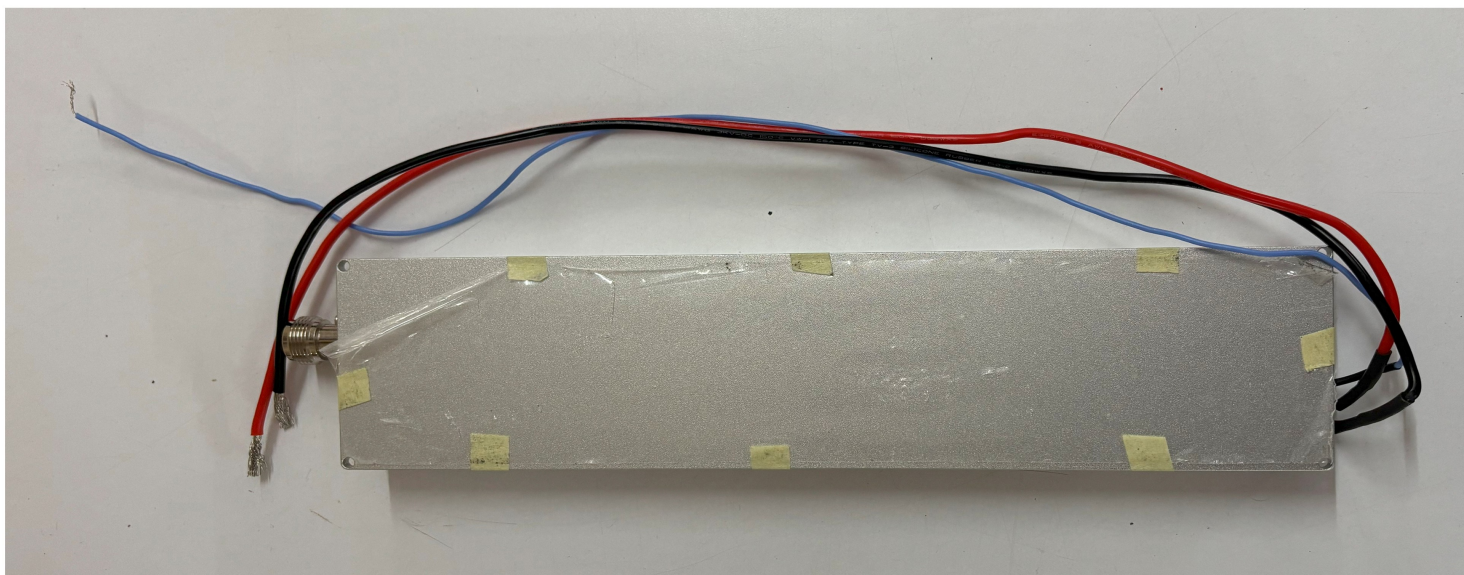
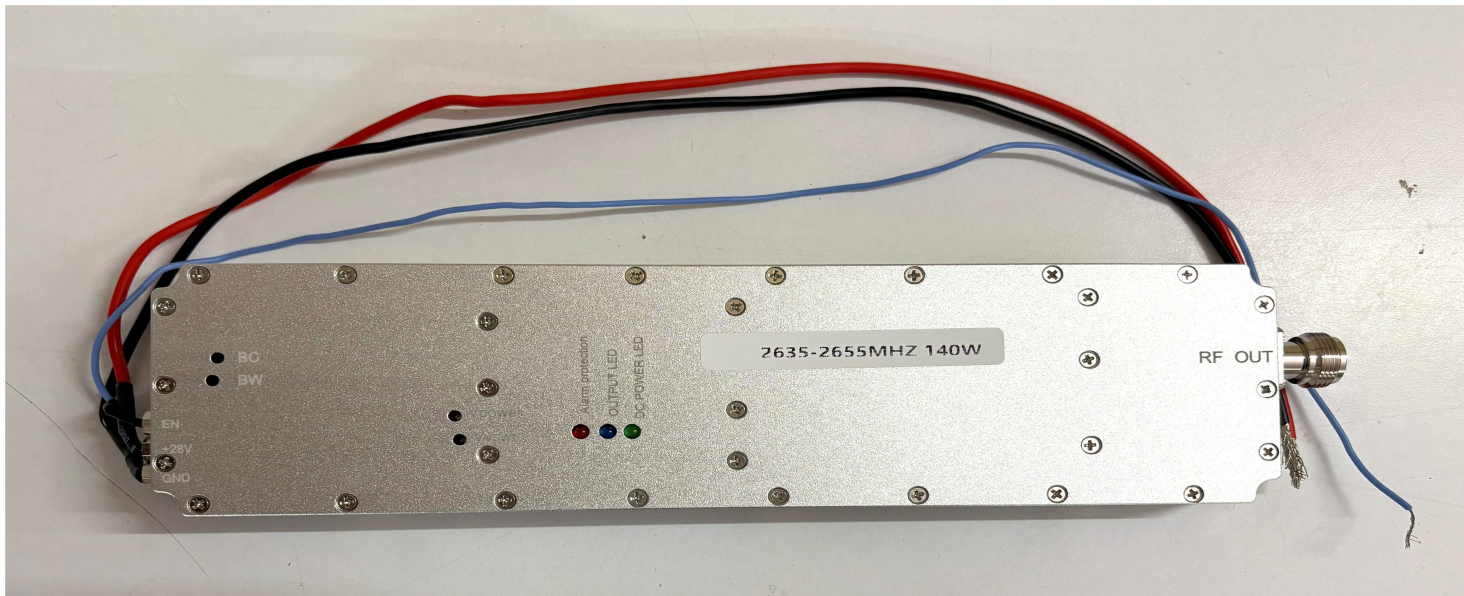




SYNERGY TELECOM PVT LTD



WZ-47, BASEMENT, BUDDHELLA VILAGE VIKAS PURI NEW DELHI - 110018

PH:- 011-28533349, MOB:- 91-7217885948, FAX:- 011-28533349

EMAIL:- INFO@SYNERGYTPL.COM, WEBSITE:- WWW.RFCONNECTOR.IN

900MHz-960GHz 140W Broadband Power Amplifier Module Technical Specification

1、 Interface definition:

serial number	Pin Number	Pin Definition	Remark
Power supply interface	red	+28V power supply	+28V power supply
	black	GND	Ground (shared with module housing)
	1		
	2		
	3		
	4	TTL control	High (+5V) on Low (0V) off
	5	NC	spare

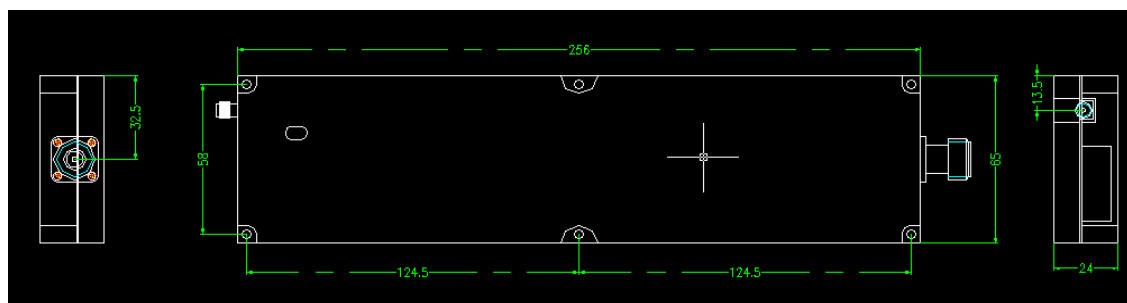
Forward Power Monitoring, VSWR Monitoring, VSWR Protection & Temperature Protection

2、 Work Environment

Operating temperature	-40 ~ +55℃
Operating temperature	
Relative humidity	5% ~ 95%, no condensation
Storage temperature	-40 ~ +85℃
RF IN	VCO
RF OUT	N-type head
Power interface	Red and black line

3、 Appearance structure dimensions

256*65*24MM



For structural parts drawings, please refer to CAD data

4、 Technical indicators

5.1 900-960Mhz

Synergy Telecom P Ltd.

900-960MHz		
index	parameter	Remark
Operating frequency	900-960MHz	
Output saturation power	$\geq 140W$	
In-band gain flatness	$\leq 3.0dB$	
Load impedance mismatch (anti-burnout)	6:1	
Working current	$\leq 12A$	
Input port standing wave	≤ 1.5	
Clutter suppression	$\geq 65dBc$	
Second Harmonic	$\leq -12dBc$	
RF input interface	VCO	
RF output interface	N-type head	
Power supply and control interface	Red and black line	
Amplifier PTT switch port	The amplifier is off by default, 3.3~5V ^{28V} is on	High level turns on, low level turns off
VCC power supply	+28V	
VCC maximum voltage	+32V	
Dimensions	256*65*24 mm	Without connector
Operating temperature	-25°C~+55°C	
Installation	Heat dissipation at the bottom of the module, installation holes see drawing	

1800- 1880 MHz 140W Broadband Power Amplifier Module Technical Specification

5、 Interface definition:

serial number	Pin Number	Pin Definition	Remark
Power supply interface	red	+28V power supply	+28V power supply
	black	GND	Ground (shared with module housing)
	1		
	2		
	3		
	4	TTL control	High (+5V) on Low (0V) off
	5	NC	spare

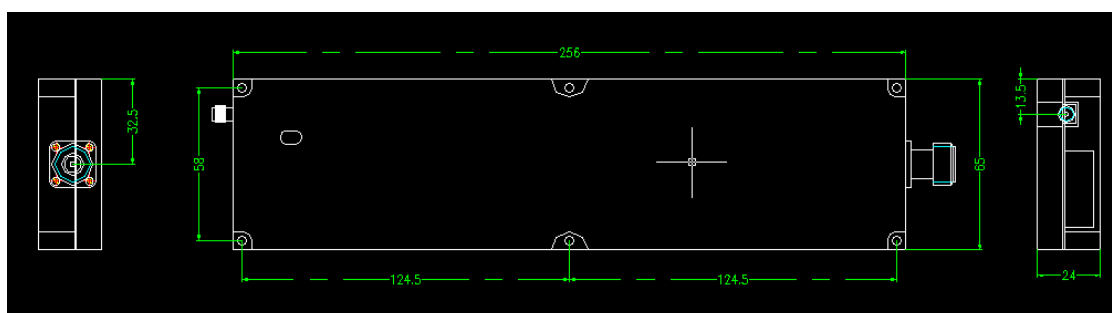
Forward Power Monitoring, VSWR Monitoring, VSWR Protection & Temperature Protection

6、 Work Environment

Operating temperature	-40 ~ +55℃
Operating temperature	
Relative humidity	5% ~ 95%, no condensation
Storage temperature	-40 ~ +85℃
RF IN	VCO
RF OUT	N-type head
Power interface	Red and black line

7、 Appearance structure dimensions

256*65*24MM



For structural parts drawings, please refer to CAD data

8、 Technical indicators

Synergy Telecom P Ltd.

1800- 1880 MHz		
index	parameter	Remark
Operating frequency	900-960MHz	
Output saturation power	$\geq 140W$	
In-band gain flatness	$\leq 3.0dB$	
Load impedance mismatch (anti-burnout)	6:1	
Working current	$\leq 12A$	
Input port standing wave	≤ 1.5	
Clutter suppression	$\geq 65dBc$	
Second Harmonic	$\leq -12dBc$	
RF input interface	VCO	
RF output interface	N-type head	
Power supply and control interface	Red and black line	
Amplifier PTT switch port	The amplifier is off by default, $3.3 \sim 5V$ is on	High level turns on, low level turns off
VCC power supply	+28V	
VCC maximum voltage	+32V	
Dimensions	256*65*24 mm	Without connector
Operating temperature	$-25^{\circ}C \sim +55^{\circ}C$	
Installation	Heat dissipation at the bottom of the module, installation holes see drawing	

2100-2180 MHz 140W Broadband Power Amplifier Module Technical Specification

9、 Interface definition:

serial number	Pin Number	Pin Definition	Remark
Power supply interface	red	+28V power supply	+28V power supply
	black	GND	Ground (shared with module housing)
	1		
	2		
	3		
	4	TTL control	High (+5V) on Low (0V) off
	5	NC	spare

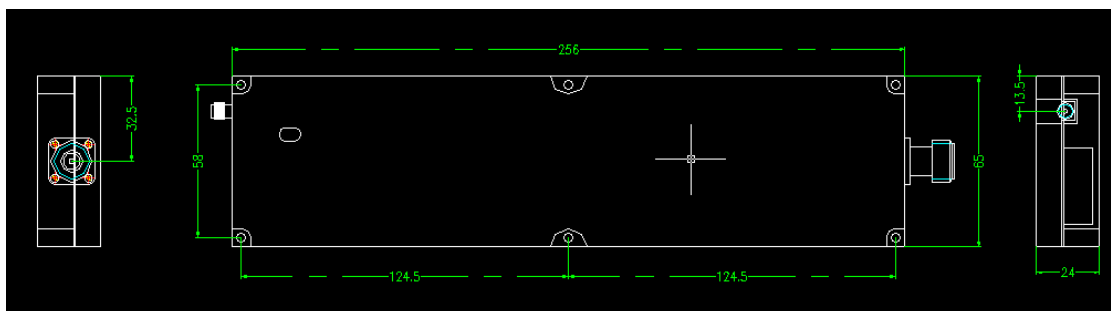
Forward Power Monitoring, VSWR Monitoring, VSWR Protection & Temperature Protection

10、 Work Environment

Operating temperature	-40 ~ +55℃
Operating temperature	
Relative humidity	5% ~ 95%, no condensation
Storage temperature	-40 ~ +85℃
RF IN	VCO
RF OUT	N-type head
Power interface	Red and black line

11、 Appearance structure dimensions

256*65*24MM



For structural parts drawings, please refer to CAD data

12、 Technical indicators

5.1 2100-2180 MHz

Synergy Telecom P Ltd.

index	parameter	Remark
Operating frequency	900-960MHz	
Output saturation power	$\geq 140W$	
In-band gain flatness	$\leq 3.0dB$	
Load impedance mismatch (anti-burnout)	6:1	
Working current	$\leq 12A$	
Input port standing wave	≤ 1.5	
Clutter suppression	$\geq 65dBc$	
Second Harmonic	$\leq -12dBc$	
RF input interface	VCO	
RF output interface	N-type head	
Power supply and control interface	Red and black line	
Amplifier PTT switch port	The amplifier is off by default, $28V$ $3.3 \sim 5V$ is on	High level turns on, low level turns off
VCC power supply	+28V	
VCC maximum voltage	+32V	
Dimensions	256*65*24 mm	Without connector
Operating temperature	$-25^{\circ}C \sim +55^{\circ}C$	
Installation	Heat dissipation at the bottom of the module, installation holes see drawing	