



## SPC1U01, SpacePath Control Unit

The STC1U01 controller is a compact and user friendly unit providing full remote control of up to two SpacePath amplifiers and a redundant switch.

The SPC1U01 is compatible with with all STA series amplifiers and provides a number of feature enhancements including; Attenuation setting, Automatic Gain Control, Go-to Power, Log/Trend Analysis etc

### FEATURES

- User Friendly Easy to use controls with clear, high visibility displays. A dedicated display and separate controls are provided for each amplifier, avoiding operator confusion.
- Intuitive mimic display with indicators is provided on the front panel to clearly show the condition of each amplifier and the position of the waveguide switch.
- Dual redundant power supplies.
- Remote interfaces provided as standard to allow remote monitoring and control including; RS232, RS422/485, Ethernet.
- USB ports for download of operational logs and trend analysis; helix current, TWT temperature, attenuation, heater voltage, output power, reflected power

### CONTROLS

Prime Power ON/OFF switch

Front panel control keys:

- General
  - ◊ RESET
  - ◊ LOCAL/REMOTE
- HPA A and B Mode
  - ◊ WARM-UP/STANDBY
  - ◊ TRANSMIT
- Redundancy
  - ◊ MANUAL/AUTO
  - ◊ HPA A/B to Antenna
- Channel A/B Set Up keys—UP, DOWN, ENTER
  - ◊ Function/Parameter Selection
  - ◊ Attenuation/Gain Control

### SPECIFICATION

#### Electrical

Voltage .....	99 to 264 V
Frequency.....	47 to 63 Hz
Power requirement.....	25 W nom
Power factor .....	0.96 min
Input surge current.....	100 A max at 230 VAC

#### Mechanical

Weight .....	2.4 kg
Dimensions:	
width .....	483 mm (19 inches)
height.....	1U, 44 mm (1.75 inches)
depth .....	250 mm (9.9 inches)

(not including connector mating halves)

Cooling.....Natural

#### Environmental

For operation outside these parameters, refer to Spacepath Communications for guidance.

Operating temperature.....	– 20°C to +50°C
Storage temperature.....	– 40°C to +70°C
Vibration .....	BS EN 60068-2-64 test Fh, Transportation
Shock.....	IEC Publication 68-2-27 Part 2 Test Ea 25 g

#### Connectors

Prime Power (2 off) .....	IEC C14
Amplifier interface .....	D-Sub 9-pin plug
Remote Interface RS232.....	D-Sub 9-pin plug
Remote Interface RS422/485 .....	D-Sub 9-pin socket
Ethernet .....	RJ-45 Socket
USB Port 1/2 (2 off).....	USB 2.0 Type A Male

#### Regulatory

EMC.....	EMC Directive 2014/108/EU and FCC Part 15
Safety.....	Low Voltage Directive 73/23/EEC BS EN 60950
RoHS.....	RoHS Directive 2011/65/EU

## FRONT PANEL DISPLAY

OLED 2x20 character display, functions selected by Channel Set Up keys:

- Amplifier status
- Fault identification
- Monitors
  - ◇ Output Power
  - ◇ Helix Current
  - ◇ TWT Temperature
  - ◇ Reflected Power
  - ◇ Attenuation Setting
- Set-up parameters (including)
  - ◇ Attenuation/Gain control
  - ◇ ALC/GTP control
  - ◇ Low/High Power settings

## FRONT PANEL INDICATORS

Power Supply #1/#2 OK

Local

Remote

Manual redundancy

Auto redundancy

HPA A/B mode;

- WARM-UP

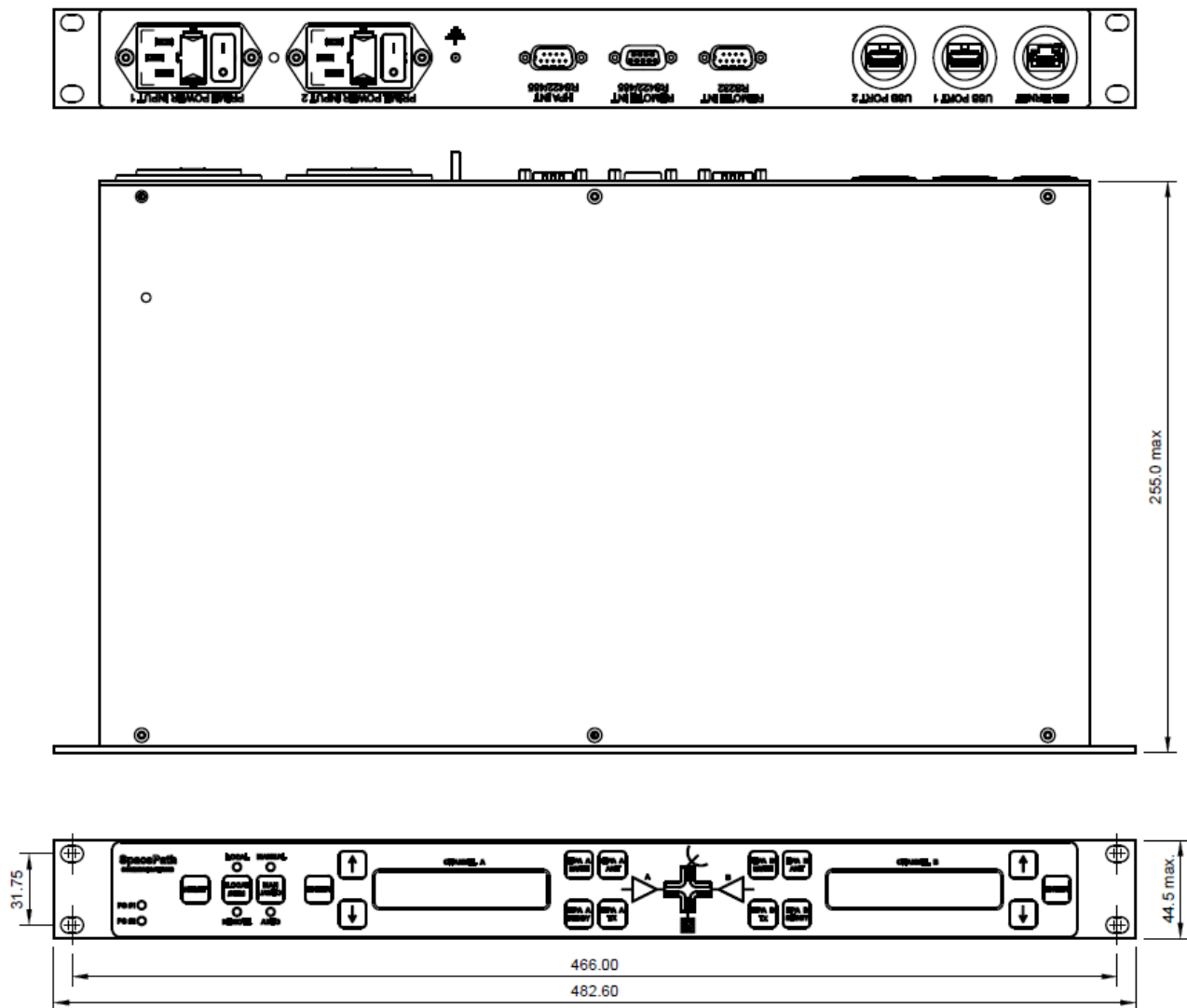
- STANDBY

- TRANSMIT

- FAULT

WG Path

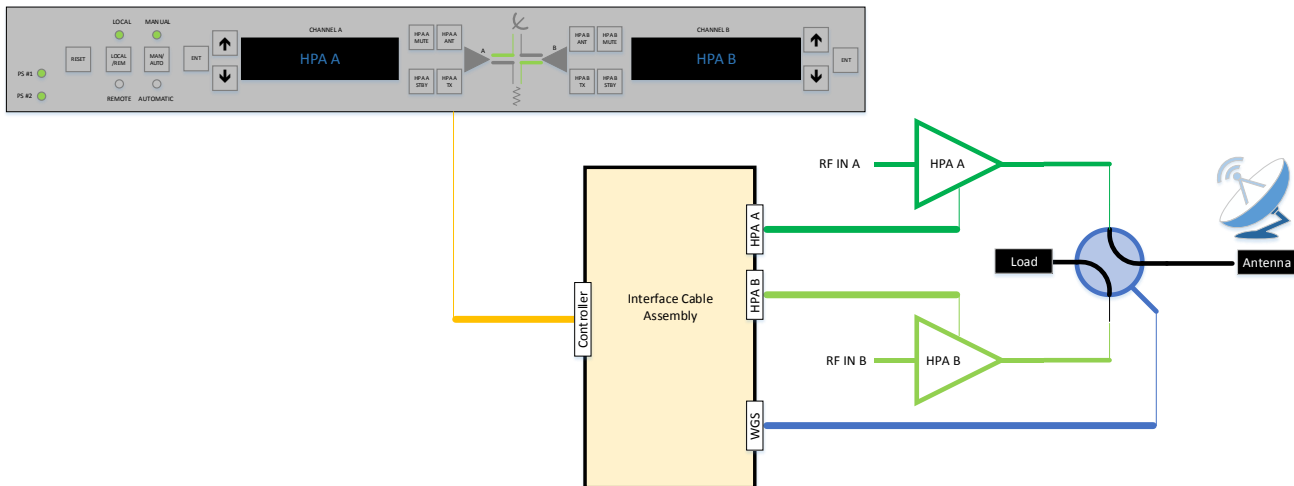
## OUTLINE



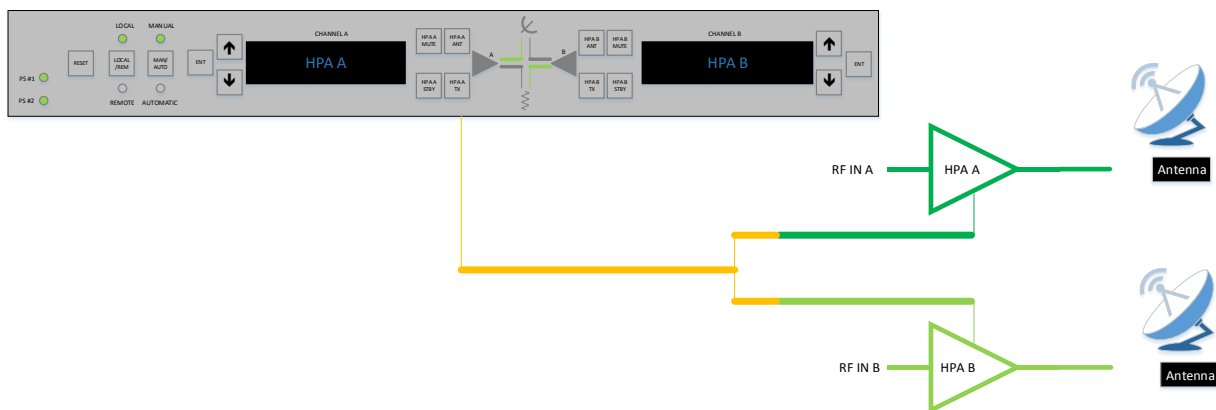
**Packed Gross Weight & Dimensions**  
**3kg 54x29x10cms**

## APPLICATIONS

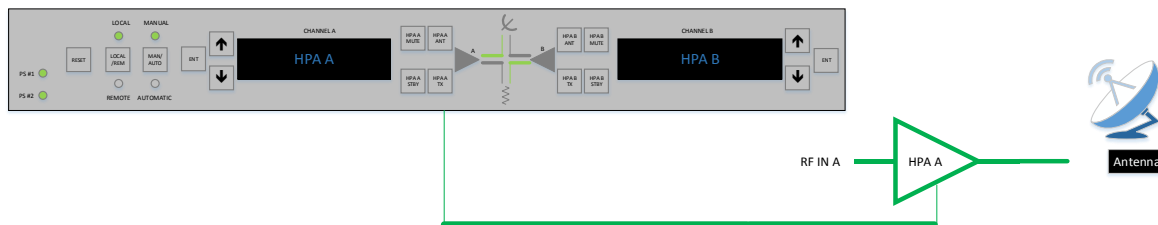
### 1:1 Redundant Switch Control



### Dual HPA



### Single HPA



## OPTIONS

The SPC1U01 is compatible with the; STA1000, STA2000 and STA3000 series of HPAs.

Contact SpacePath for details of suitable cable assemblies and waveguide assemblies.

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# SUPPORT WHERE AND WHEN YOU NEED IT

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- ***TECHNICAL ASSISTANCE***
- ***LOAN/RENTAL UNITS FOR IMMEDIATE DEPLOYMENT***
- ***APPLICATION DESIGN SUPPORT***
- ***SPECIALIST LOGISTICS***

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