

High Power hub-mounting SSPAs

Codan's high power series of outdoor mounting C-Band and Ku-Band SSPAs offer a wide range of distinctive advantages and enhanced features for satellite and communications systems based in remote or challenging geographic regions.

KEY FEATURES

Output power

The C-Band SSPAs offer an output power rating of either 60 or 120 watts while the Ku-Band SSPA is rated at 40 watts.

Durability

The SSPAs are designed and tested to meet their performance specifications in an ambient temperature range from -40°C to +55°C and up to 100% relative humidity, ensuring long-term survival in extreme conditions. Field experience indicates that MTBFs of greater than 60,000 hours can be expected.

RF performance

RF performance is superb, particularly: intermodulation performance, gain stability over temperature and flatness across the RF band.

The SSPAs also boast industry leading spurious and harmonics specifications, while guaranteed RF performance ensures expensive system link margins do not have to be used to cope with SSPA RF performance variations. The high linearity and low spurious characteristics contribute to superior multi-carrier performance.

Power consumption

Codan's high power SSPAs feature low power consumption and low temperature rise, ensuring internal components do not suffer undue stress.

Power supply

All the high power SSPAs are AC mains powered and automatically operate from either 115 V AC or 230 V AC.

Internal protection

Internal protection against high temperature and short or open circuit RF output is standard.

ADVANCED FEATURES

Local control

The user-friendly, PC-based SSPA Manager software is provided for operator control and monitoring of the SSPA. The operating configuration is stored in the SSPA EEPROM to ensure the setup parameters are restored in the event of a power failure.



C-Band 5940 SSPA

Enhanced monitor and control

All operating functions can also be controlled and monitored via the serial M&C interface. Functions that can be monitored include RF output power, heatsink temperature and internal supply rail voltages. The serial interface can also be used to perform a self test, mute the SSPA, and set the gain and maximum/minimum RF power alarm thresholds.

The SSPA is supplied with RS232, RS422 and RS485 interfaces.

Redundancy switching system

Codan's redundancy switching system can provide automatic changeover to a second SSPA, maximising availability and minimising any disruption to service.

The redundancy switching system is fully outdoor mounted, but can be supplied with an indoor rack mounted SSPA Redundancy Monitor to provide indoor monitor and control of the redundant SSPA system.

MAJOR CONFIGURATION OPTIONS

Frequency bands

C-Band	5.850–6.425 GHz
Ku-Band	14.0–14.5 GHz

Output powers (C-Band)

5760	60 W
5712H	120 W

WR137 waveguide output standard

Output power (Ku-Band)

5940	40 W
------	------

WR75 waveguide output standard

M&C serial interface

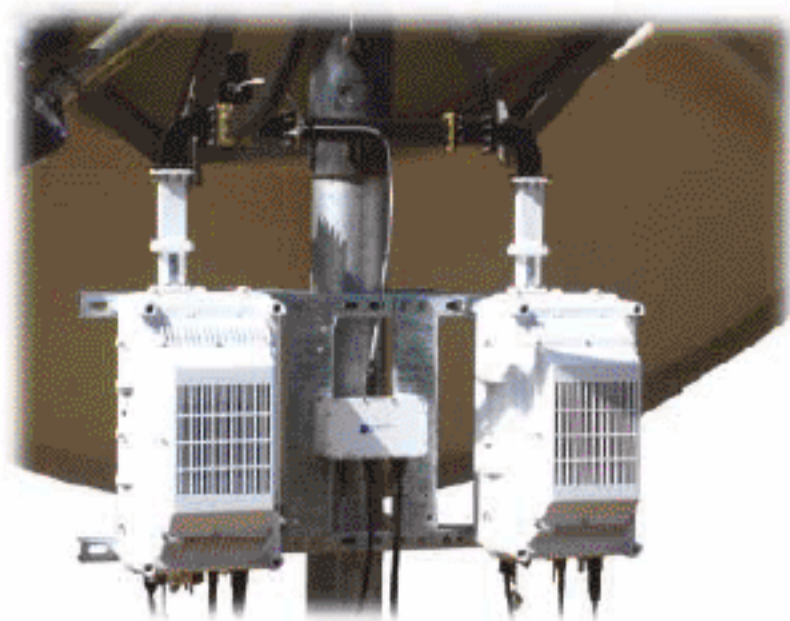
RS232	Standard
RS422	Standard
RS485	Standard

Options and accessories

Antenna pole mounting kit

5588	SSPA Redundancy Controller (outdoor mounting)
5589	SSPA Redundancy Monitor (indoor rack mounting) (Includes 50 m interconnecting cable)

CODAN QUALITY AND SERVICE



Redundant SSPA system

The SSPAs are built and tested in Codan's ISO9001 quality certified manufacturing facility, and undergo 100% burn in and performance testing.

Codan's fully trained staff and agents provide in-factory and in-country training services, and complete installation and on-site assistance. This service is backed up by a 24 hour customer service line and a warranty of three years on manufacturing, design or component defects.



CODAN



www.satcom-services.com

Mike Termond
Phone: 1.805.649.1384 Fax: 1.805.500.4328
mike@satcom-services.com
25 Creek Lane
Oak View, CA 93022 USA