ZSync™ Technology

SG-100 ZSync Dongle

SG-120 ZSync Multi-Port Parallel Generator

Powered by ZSync technology, Tempest2400 BeltStation users can roam seamlessly between coverage zones without interruption of audio or control.

ZSYNC™ TECHNOLOGY

ZSync technology provides a zero sync reference that coordinates the hopping patterns of all connected BaseStations. ZSync technology ensures that there is a fixed relationship between all of the BaseStation radios irrespective of random time variation in power up sequences. All Tempest2400 BaseStations must have the same ZSync reference in order to use the Seamless Roaming functionality.

ZSync generates a zero synchronization reference to enable seamless roaming and to improve performance of multi-base systems in non-roaming applications. The beginning of a hop sequence is indicated with a short pulse (1% duty cycle), while the remaining 5,804 pulses in the sequence use a 50% duty cycle.

This ZSync technology is available as a dongle (SG-100) or a 1RU Multi-Port Parallel Generator (SG-120).

ZSYNC DONGLE (SG-100)

The SG-100 is an external zero sync source for Tempest2400 BaseStations with radio version 1.18 or later. The SG-100 includes an integrated 5vDC wall power supply.

ZSYNC MULTI-PORT PARALLEL GENERATOR (SG-120)

The SG-120 is a 1RU rack mount parallel sync generator source for Tempest2400 BaseStations with radio version 1.18 or later, providing a total of 12 parallel sync feeds. Multiple SG-120 parallel generators may be linked together for larger systems. The SG-120 includes a 5VDC wall power supply.

KEY FEATURES AND BENEFITS

- Provides a zero sync reference to coordinate hopping patterns
- Ensures fixed relationship between BaseStation radios
- Enables Tempest2400 Seamless Roaming
- Available as a dongle or a 1RU parallel generator
- RoHS compliant

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BACK PANEL

TECHNICAL SPECIFICATIONS

Electrical

Input Voltage Range

SG-100:	90-264 AC
SG-120:	90-264 AC, 4.75-5.25 VDC

Input Frequency Range:	47-63Hz

Input Current

SG-100:	300mA max
SG-120:	600mA max, 500mA typical

In Rush Current

SG-100:	60A max at 230V, 30A max at 115V
SG-120:	30A max at 115V, 60A max at 230V

Power Consumption

SG-100:	0.3W
SG-120:	AC – 1.5W min., 6W max. DC – 1.25W min., 5W max.

Safety and Compliance

Hi-Pot 3000 VAC
(input to output at 10mA for 1 min)

Safety Approvals

SG-100:	UL, FCC
SG-120:	UL, FCC, CB, CE
EMI Standard:	FCC class A, CE
RoHS Compliant:	Yes
Leakage Current:	0.25mA

Environmental

-4º-122º F (-20º-50º C)

Weight

SG-100:	15lbs (dongle), .31lbs (dongle and power supply)
SG-120:	2lbs, 12oz

Cable Length

SG-100 only:	Approx. 6ft

Dimensions

SG-120 only:	19in L x 8.75in D x 1.75in H