



# SPEC SHEET

## Symphony 8-Channel Gateway LL-BST-8

The LL-BST-8 IoT gateway provides connectivity and network coordination for long range, wide area IoT networks.

It is compatible with LoRaWAN 1.0 public networks and Link Labs' Symphony Link™ system for wide area, private networking. It is capable of supporting thousands of nodes from a single installation.

Its turnkey design allows both indoor and outdoor use with processing power to allow future network enhancements. Link Labs' Conductor platform provides for simple, cloud-based configuration and allows for local as well as remote administration for fast setup and network deployment.

### Key Features

- Weatherized Outdoor Enclosure Available
- Data Connection Via WiFi, GSM, or Ethernet
- 868 or 915 MHz
- Active Interference Mitigation Algorithm
- Adaptive Data Rates
- FCC/IC Certified and ETSI/CE Compliant (Q4)
- Symphony Link Ready

For ordering, or additional questions:  
[info.link-labs.com/contact](mailto:info.link-labs.com/contact)  
 +1 (202) 524-1390

Additional product info:  
[link-labs.com/symphony-gateway/](http://link-labs.com/symphony-gateway/)

Warranty and repair info:  
[link-labs.com/warranty](http://link-labs.com/warranty)



Parameter	Value	Notes
Peak Power Consumption	13W	RX mode, all channels active and cellular
Sensitivity	-133 dBm	Datarate = 1kbps
In-channel blocking	16 dB	Desired signal 8dB > sensitivity, tonal interferer at channel center
Adjacent channel blocking	64 dB	Desired signal 8dB > sensitivity, tonal interferer at adjacent channel center
IIP3	-39.4 dBm	Max RX gain
Channels	8	125kHz and 500kHz channel BW

Host Computer	Value	Notes
CPU	1Ghz dual core	AMD G Series
Memory	2GB DRAM	-
Hard Drive	8GB SSD	-
Power	12V DC	@1A Max
OS	Linux	Debian Wheezy
Data Connections	2x USB Ethernet Cellular (opt) WiFi (opt)	LNA



## I/O CONFIG

# Symphony 8-Channel Gateway LL-BST-8



## Model Numbers

Product ID	Frequency (MHz)	MAC Options	Enclosure	Region	Backhaul Options*
<b>LL-BST-8</b>	<b>-915</b>	<b>-LRW</b> (LoRaWAN MAC)	<b>-I</b> (Indoor)	<b>-US</b> (United States)	<b>-E</b> (Ethernet Only)
<i>Example:</i> <b>LL-BST-8-915-LRW-I-US-E</b>	<b>-868</b>	<b>-SYM</b> (Symphony Link)	<b>-O</b> (Outdoor)	<b>-EU</b> (Europe)	<b>-W</b> (Wi-Fi)
8 channel base station configured for 915 MHz, LoRaWAN, indoor enclosure, United States region with Ethernet backhaul				<b>-UK</b> (United Kingdom)	<b>-C</b> (CDMA)
					<b>-G</b> (GSM)

\*Ethernet port is standard on all models

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