

# GLX-D+ DUAL BAND DIGITAL WIRELESS



GLX-D+ Dual Band Digital Wireless is the perfect solution for musicians and presenters who want to go wireless with confidence, and without complexity. With new Dual Band Wireless Technology, GLX-D+ can operate in both 2.4 and 5.8GHz, more than doubling the available bandwidth while also intelligently avoiding interference for reliable, dropout-free audio.

## Drop Outs Won't Steal the Show.

With the new Dual Band Wireless Technology, GLX-D+ can operate in both 2.4 and 5.8GHz, more than doubling your available bandwidth for reliable dropout-free audio.

## Ready-To-Go. Every time. Automatically.

GLX-D+ Dual Band Digital Wireless System is the ideal solution to go wireless without complication. Every aspect of its operation is managed automatically, allowing you to focus on your performance.

## Smart Rechargeability.

End battery life uncertainty with GLX-D+ Dual Band rechargeable battery. With up to 12 hours of runtime, the new lithium-Ion SB904 batteries can be charged directly in the receiver or via USB-C connector on the handheld microphone or bodypack. A quick charge feature allows for 1.5 hours of use from a 15 minute charge.

2.4  
5.8  
GHz

Dual Band Wireless  
Technology



Automatic Frequency  
Management

12  
HOURS

Smart  
Rechargeability

16

Up to 16  
Compatible Systems

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# GLX-D+ DUAL BAND DIGITAL WIRELESS

## OVERVIEW

GLX-D+ Dual Band Digital Wireless is the perfect solution for musicians and presenters who want to go wireless with confidence, and without complexity. Every aspect of its operation is managed automatically and with total reliability, allowing you to focus on your performance. With new Dual Band Wireless Technology, GLX-D+ can operate in both 2.4 and 5.8GHz, more than doubling the available bandwidth while also intelligently avoiding interference for reliable, dropout-free audio. Featuring smart rechargeability with up to 12 hours of runtime (improved from prior generation GLX-D), the included lithium-ion battery can be charged multiple ways and offers quick charge capabilities.

Available with multiple legendary microphone options (including the SM58®) in tabletop, half-rack and guitar pedal system configurations. When combined with Frequency Manager and directional antenna accessories (both sold separately), the rack-mount receiver systems are ideal for small and medium installations where a larger number of channels is needed.

## SYSTEM SPECIFICATIONS

<b>Compatibility</b>	With Frequency Manager: Up to 11 compatible systems in typical setting, and up to 16 under ideal conditions Without Frequency Manager: Up to 4 compatible systems in typical setting, and up to 8 under ideal conditions
<b>System Operating Range</b>	Indoors: Up to 30 m (100 ft.) typical, with a maximum of 60 m (200 ft.) under ideal conditions Outdoors: Up to 20 m (65 ft.) typical, with a maximum of 50 m (165 ft.) under ideal conditions
<b>Transmit Mode</b>	Shure Proprietary Digital - Dual Band (2.4 GHz and 5.8 GHz)
<b>Audio Frequency Response</b>	20 Hz - 20 kHz <b>Note: Dependent on microphone type</b>
<b>Dynamic Range</b>	120 dB, A-weighted
<b>RF Sensitivity</b>	-88 dBm, typical
<b>Total Harmonic Distortion</b>	0.07%, typical
<b>RF Output Power</b>	10 mW E.I.R.P. max
<b>Operating Temperature Range</b>	-18°C (0°F) to 57°C (135°F) <b>Note: Battery characteristics may limit this range.</b>
<b>Storage Temperature Range</b>	-29°C (-20°F) to 74°C (165°F)
<b>Polarity</b>	Positive pressure on microphone diaphragm (or positive voltage applied to tip of WA302 phone plug) produces positive voltage on pin 2 (with respect to pin 3 of low-impedance output) and the tip of the high impedance 6,35 mm output.
<b>Battery Life</b>	Up to 12 hours

NOTE: All Specifications are subject to change. Performance may vary depending on country regulations and operating environment.

## AVAILABLE CONFIGURATIONS

<b>GLXD124R+/85-Z3</b>	Dual Band Wireless System with GLXD4+ Tabletop Receiver, SM58® Handheld Transmitter, GLXD1+ Bodypack Transmitter and WL185 Lavalier Microphone	<b>GLXD14R+/B98-Z3</b>	Dual Band Wireless System with GLXD4R+ Half-rack Receiver, GLXD1+ Bodypack Transmitter and WB98H/C Gooseneck Instrument Microphone
<b>GLXD14+-Z3</b>	Dual Band Wireless System with GLXD4+ Tabletop Receiver, GLXD1+ Bodypack Transmitter and WA302 Guitar Cable	<b>GLXD14R+/MX53-Z3</b>	Dual Band Wireless System with GLXD4R+ Half-rack Receiver, GLXD1+ Bodypack Transmitter and MX153 Earset Microphone
<b>GLXD14+/85-Z3</b>	Dual Band Wireless System with GLXD4+ Tabletop Receiver, GLXD1+ Bodypack Transmitter and WL185 Lavalier Microphone	<b>GLXD14R+/SM31-Z3</b>	Dual Band Wireless System with GLXD4R+ Half-rack Receiver, GLXD1+ Bodypack Transmitter and SM31FH Headset Microphone
<b>GLXD14+/93-Z3</b>	Dual Band Wireless System with GLXD4+ Tabletop Receiver, GLXD1+ Bodypack Transmitter and WL93 Lavalier Microphone	<b>GLXD14R+/SM35-Z3</b>	Dual Band Wireless System with GLXD4R+ Half-rack Receiver, GLXD1+ Bodypack Transmitter and SM35 Premium Headset Microphone
<b>GLXD14+/B98-Z3</b>	Dual Band Wireless System with GLXD4+ Tabletop Receiver, GLXD1+ Bodypack Transmitter and WB98H/C Gooseneck Instrument Microphone	<b>GLXD16+-Z3</b>	Dual Band Wireless System with GLXD6+ Guitar Pedal Receiver, GLXD1+ Bodypack Transmitter and WA305 Premium Guitar Cable
<b>GLXD14+/MX53-Z3</b>	Dual Band Wireless System with GLXD4+ Tabletop Receiver, GLXD1+ Bodypack Transmitter and MX153 Earset Microphone	<b>GLXD24+/B58-Z3</b>	Dual Band Wireless System with GLXD4+ Tabletop Receiver and Beta®58A Handheld Transmitter
<b>GLXD14+/PGA31-Z3</b>	Dual Band Wireless System with GLXD4+ Tabletop Receiver, GLXD1+ Bodypack Transmitter and PGA31 Headset Microphone	<b>GLXD24+/B87A-Z3</b>	Dual Band Wireless System with GLXD4+ Tabletop Receiver and Beta®87A Handheld Transmitter
<b>GLXD14+/SM31-Z3</b>	Dual Band Wireless System with GLXD4+ Tabletop Receiver, GLXD1+ Bodypack Transmitter and SM31FH Headset Microphone	<b>GLXD24+/SM58-Z3</b>	Dual Band Wireless System with GLXD4+ Tabletop Receiver and SM58® Handheld Transmitter
<b>GLXD14+/SM35-Z3</b>	Dual Band Wireless System with GLXD4+ Tabletop Receiver, GLXD1+ Bodypack Transmitter and SM35 Premium Headset Microphone	<b>GLXD24R+/B58-Z3</b>	Dual Band Wireless System with GLXD4R+ Half-rack Receiver and Beta®58A Handheld Transmitter
<b>GLXD14R+-Z3</b>	Dual Band Wireless System with GLXD4R+ Half-rack Receiver, GLXD1+ Bodypack Transmitter and WA302 Guitar Cable	<b>GLXD24R+/B87A-Z3</b>	Dual Band Wireless System with GLXD4R+ Half-rack Receiver and Beta®87A Handheld Transmitter
<b>GLXD14R+/85-Z3</b>	Dual Band Wireless System with GLXD4R+ Half-rack Receiver, GLXD1+ Bodypack Transmitter and WL185 Lavalier Microphone	<b>GLXD24R+/SM58-Z3</b>	Dual Band Wireless System with GLXD4R+ Half-rack Receiver and SM58® Handheld Transmitter
<b>GLXD14R+/93-Z3</b>	Dual Band Wireless System with GLXD4R+ Half-rack Receiver, GLXD1+ Bodypack Transmitter and WL93 Lavalier Microphone		

Not all systems are available in all regions. Contact your Authorized Shure Dealer for availability in your region.

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# GLX-D+ DUAL BAND DIGITAL WIRELESS

## COMPONENT SPECIFICATIONS

### GLXD4R+ DUAL BAND RACK RECEIVER

Dimensions	7.7 x 6.4 x 1.6 in. (196.8 x 162.97 x 41.8 mm), without antenna
Weight	30.5 oz (866 g) without batteries
Housing	Steel
Power Requirements	14.5 V - 17 V, 600mA
Spurious Rejection	>35 dB, typical
Gain Adjustment Range	-18 to 42 dB in 1 dB steps
Phantom Power Protection	Yes

#### AUDIO OUTPUT

Configuration	XLR Output	Balanced
	6.35 mm (1/4") output	Impedance balanced
Impedance	XLR Output	100 Ω
	6.35 mm (1/4") output	100 Ω (50 Ω, Unbalanced)
Full-Scale Output	XLR	LINE setting= +18 dBV, MIC setting= -12 dBV
	6.35 mm (1/4")	+12 dBV
Pin Assignments	XLR Output	1=ground, 2=hot, 3=cold
	6.35 mm (1/4") connector	Tip=audio, Ring=no audio, Sleeve=ground
Mic/Line Switch	30 dB Pad	

#### RECEIVER ANTENNA INPUT

Impedance	50 Ω
Antenna Type	Dual Band 1/2 WaveSleeve Dipole
Maximum Input Level	-20 dBm

**Front****Back**

### GLXD4+ DUAL BAND WIRELESS RECEIVER

Dimensions	7.2 x 4.8 x 1.6 in. (182.8 x 121.97 x 40.3 mm), H x W x D, antennas folded
Weight	10.9 oz (310 g)
Housing	Molded Plastic
Power Requirements	14.5 V - 17 V, 600mA
Spurious Rejection	>35 dB, typical
Gain Adjustment Range	-20 to 40 dB in 1 dB steps
Phantom Power Protection	Yes

Configuration	XLR Output	Impedance balanced
	6.35 mm (1/4") output	Impedance balanced
Impedance	XLR Output	100 Ω
	6.35 mm (1/4") output	100 Ω (50 Ω, Unbalanced)
Maximum Audio Output Level	XLR connector (into 600 Ω load)	1 dBV
	6.35 mm (1/4") connector (into 3 kΩ load)	+8.5 dBV
Pin Assignments	XLR Output	1=ground, 2=hot, 3=cold
	6.35 mm (1/4") connector	Tip=audio, Ring/Sleeve=ground

#### RECEIVER ANTENNA INPUT

Impedance	50 Ω
Antenna Type	Dual Band 1/2 Wave Sleeve Dipole, non-removable
Maximum Input Level	-20 dBm



### GLXD6 DUAL BAND GUITAR PEDAL RECEIVER

Dimensions	5.4 x 3.7 x 1.89 in. (138 x 95 x 48 mm), H x W x D	
Weight	19.75 oz (560 g)	
Housing	Aluminum alloy	
Power Requirements	9 V - 15 V, 400mA (efficiency level VI power supply)	
Spurious Rejection	>35 dB, typical	
Gain Adjustment Range	-20 to 40 dB in 1 dB steps	
Configuration	6.35 mm (1/4") output	Impedance balanced
	6.35 mm (1/4") output	100 Ω (50 Ω, Unbalanced)
Maximum Audio Output Level	6.35 mm (1/4") connector (into 3 kΩ load)	+8.5 dBV
Pin Assignments	6.35 mm (1/4") connector	Tip=audio, Ring/Sleeve=ground
Audio Input Modes	Tuner or True Bypass	

#### RECEIVER ANTENNA INPUT

Impedance	50 Ω
Antenna Type	Dual Band Internal Monopole
Maximum Input Level	-20 dBm



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# GLX-D+ DUAL BAND DIGITAL WIRELESS

## GLXD1+ DUAL BAND BODYPACK TRANSMITTER

<b>Dimensions</b>	4.5 x 2.6 x 1.1 in. (115 x 66.94 x 28.51 mm), (H x W x D), without antenna
<b>Weight</b>	5.4 oz (153.1 g), without battery
<b>Power Requirements</b>	3.7 V Rechargeable Li-Ion
<b>Housing</b>	Cast Metal, Black Powdercoat
<b>Input Impedance</b>	900 kΩ
<b>RF Output Power</b>	10 mW E.I.R.P. max
<b>TRANSMITTER INPUT</b>	
<b>Connector</b>	4-Pin male mini connector (TA4M)
<b>Configuration</b>	Unbalanced
<b>Maximum Input Level (1 kHz at 1% THD)</b>	+8.4 dBV (7.5 Vp-p)
<b>Antenna Type</b>	Dual Band Internal Monopole
<b>Pin Assignments TA4M</b>	1: Ground (cable shield) 2: + 5 V Bias 3: Audio 4: Tied through active load to ground (On instrument adapter cable, pin 4 floats)



## GLXD2+ DUAL BAND HANDHELD TRANSMITTER

<b>DIMENSIONS</b>			
Model	A	B	C
SM58	51 mm, 2.0 in.	246mm, 9.9 in.	37 mm, 1.5 in.
BETA 58	51 mm, 2.0 in.	246mm, 9.9 in.	37 mm, 1.5 in.
BETA87A	51 mm, 2.0 in.	246mm, 9.9 in.	37 mm, 1.5 in.

  

<b>WEIGHT</b>	
SM58	275 g (9.7 oz), without battery
BETA 58	BETA 58 - 225 g (7.9 oz), without battery
BETA87A	BETA 87A - 265 g (9.3 oz), without battery

  

<b>Housing</b>	Aluminum alloy, ABS plastic
<b>Power Requirements</b>	3.6 V Rechargeable Li-Ion
<b>RF Output Power</b>	10 mW E.I.R.P. max
<b>Maximum Input Level</b>	146 dB SPL



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# GLX-D+ DUAL BAND DIGITAL WIRELESS

## GLXD+ DUAL BAND FREQUENCY MANAGER (GLXD+FM)

<b>Power Requirements</b>	15 VDC		
<b>DC Output</b>	15 VDC (±6)		
<b>Output Current</b>	3.8 A, maximum		
<b>Combined total from all DC outputs</b>	3.8 A, maximum		
<b>Operating Temperature Range</b>	-18 °C to 63 °C (0 °F to 145 °F)		
<b>Dimensions</b>	45 × 483 × 192 mm (1.8 × 19 × 7.6 in) H × W × D		
<b>Net Weight</b>	1.63 kg (3.6 lbs)		
<b>RF INPUT</b>	<b>RF OUTPUT</b>		
<b>Connector Type</b>	Reverse SMA	<b>Connector Type</b>	Reverse SMA
<b>RF Frequency Range</b>	2400 to 5850MHz	<b>RF Frequency Range</b>	2400 to 5850MHz
<b>Receiver Port Isolation</b>	35 dB, typical	<b>Output Intercept Point (OIP3)</b>	48 dBm, typical
<b>Impedance</b>	50 Ω	<b>Impedance</b>	50 Ω
<b>Maximum Antenna Input Power</b>	-10 dBm	<b>Reverse Isolation Output to Input</b>	35 dB, typical
<b>Maximum Receiver Port Input Power</b>	+15 dBm	<b>Gain Input to any output port</b>	-3 to 0 dB

Front



Back



## GLXD+ DUAL BAND PASSIVE DIRECTIONAL ANTENNA (PA805DB-RSMA)

The PA805DB-RSMA Dual Band Passive Directional Antenna improves in up to 8dB the reception of half-rack GLXD4R+ receivers and of the GLXD+FMDB Dual Band Frequency Manager. Improved filtering of interference from 2.4 and 5.8GHz sources deliver 24dB front-to-back rejection ratio of off-axis signals.

<b>Frequency Range</b>	<2:1 Voltage Standing Wave Ration (VSWR)	2050 to 5850 MHz
<b>Antenna Gain</b>	@ 2.45 GHz, typical	8 dBi
<b>3 dB Horizontal Beam Width</b>		100 degrees
<b>Efficiency</b>	@ 2.45 GHz, typical	89%
<b>Impedance</b>		50 Ω
<b>Polarization</b>		Linear
<b>Front-to-back ratio</b>	@ 2.45 GHz, typical	24 dB
<b>Connector Type</b>		Reverse SMA
<b>Dimensions</b>		105 × 164 × 27.5 mm (4.1 × 6.5 × 1.1 in.) H × W × D
<b>Net Weight</b>		2.5 oz. (70 g)



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## OPTIONAL ACCESSORIES AND REPLACEMENT PARTS



**UA8-2.4-5.8**  
RSMA DUAL BAND 45°  
OMNIDIRECTIONAL ANTENNA

New Dual Band (2.4 and 5.8GHz) omnidirectional 45° antenna for use with GLX-D+ Dual Band Digital Wireless Systems. Compatible with GLXD4R+ receiver and GLXD+FMDB Frequency Manager.



**SB904**  
LITHIUM-ION RECHARGEABLE BATTERY

New SB904 lithium-ion rechargeable battery makes powering GLX-D+ wireless systems easy. With up to 12 hours of runtime and accurate metering in hours / minutes.



**UA221DB-RSMA**  
RSMA DUAL BAND  
PASSIVE ANTENNA SPLITTER

The UA221DB-RSMA splits an incoming signal into two outgoing signals, allowing two GLXD4R+ receivers to share a single pair of antennas. Designed for use with UA8-2.4-5.8 omnidirectional antennas and PA805-RSMA directional antennas. Each kit includes two UA221DB-RSMA Splitters, four coaxial cables, and attaching hardware.



**SBC10-904**  
SINGLE BATTERY SLED CHARGER

The single battery sled charger can be powered from AC power sources and USB ports to charge one Shure SB904 Lithium-Ion Rechargeable Battery for use with GLX-D+ Digital Wireless Transmitters.



**UA505-RSMA**  
MOUNTING BRACKET

The UA505 is a paintable wall mount with BNC connector to mount the new PA805DB-RSMA or UA8-2.4-5.8 antennas. Can be painted with non-metallic paint to match mounting surface.



**SBC10-USBC**  
USB WALL CHARGER

This USB-C connection cable provides the perfect solution to charge GLX-D+ Dual Band handheld and bodypack transmitters on the go. No need to remove batteries from the transmitters to charge them – use a wall plug or car USB port.