

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
GHz

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

Compatibility	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
System Operating Range	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
Transmit Mode	Shure Proprietary Digital - Dual Band (2.4 GHz and 5.8 GHz)
Audio Frequency Response	20 Hz – 20 kHz Note: Dependent on microphone type
Dynamic Range	120 dB, A-weighted
RF Sensitivity	-88 dBm, typical
Total Harmonic Distortion	0.07%, typical
RF Output Power	10 mW E.I.R.P. max
Operating Temperature Range	-18°C (0°F) to 57°C (135°F) Note: Battery characteristics may limit this range.
Storage Temperature Range	-29°C (-20°F) to 74°C (165°F)
Polarity	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.
Battery Life	Up to 12 hours

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

AVAILABLE CONFIGURATIONS

GLXD124R+/85-Z3	Dual Band Wireless System with GLXD4+ Tabletop Receiver, SM58® Handheld Transmitter, GLXD1+ Bodypack Transmitter and WL185 Lavalier Microphone
GLXD14+-Z3	Dual Band Wireless System with GLXD4+ Tabletop Receiver, GLXD1+ Bodypack Transmitter and WA302 Guitar Cable
GLXD14+/85-Z3	Dual Band Wireless System with GLXD4+ Tabletop Receiver, GLXD1+ Bodypack Transmitter and WL185 Lavalier Microphone
GLXD14+/93-Z3	Dual Band Wireless System with GLXD4+ Tabletop Receiver, GLXD1+ Bodypack Transmitter and WL93 Lavalier Microphone
GLXD14+/B98-Z3	Dual Band Wireless System with GLXD4+ Tabletop Receiver, GLXD1+ Bodypack Transmitter and WB98H/C Gooseneck Instrument Microphone
GLXD14+/MX53-Z3	Dual Band Wireless System with GLXD4+ Tabletop Receiver, GLXD1+ Bodypack Transmitter and MX153 Earset Microphone
GLXD14+/PGA31-Z3	Dual Band Wireless System with GLXD4+ Tabletop Receiver, GLXD1+ Bodypack Transmitter and PGA31 Headset Microphone
GLXD14+/SM31-Z3	Dual Band Wireless System with GLXD4+ Tabletop Receiver, GLXD1+ Bodypack Transmitter and SM31FH Headset Microphone
GLXD14+/SM35-Z3	Dual Band Wireless System with GLXD4+ Tabletop Receiver, GLXD1+ Bodypack Transmitter and SM35 Premium Headset Microphone
GLXD14R+-Z3	Dual Band Wireless System with GLXD4R+ Half-rack Receiver, GLXD1+ Bodypack Transmitter and WA302 Guitar Cable
GLXD14R+/85-Z3	Dual Band Wireless System with GLXD4R+ Half-rack Receiver, GLXD1+ Bodypack Transmitter and WL185 Lavalier Microphone
GLXD14R+/93-Z3	Dual Band Wireless System with GLXD4R+ Half-rack Receiver, GLXD1+ Bodypack Transmitter and WL93 Lavalier Microphone

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

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 Wave Sleeve 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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GLXD1+ DUAL BAND BODYPACK TRANSMITTER

Dimensions	4.5 x 2.6 x 1.1 in. (115 x 66.94 x 28.51 mm), (H x W x D), without antenna
Weight	5.4 oz (153.1 g), without battery
Power Requirements	3.7 V Rechargeable Li-Ion
Housing	Cast Metal, Black Powdercoat
Input Impedance	900 kΩ
RF Output Power	10 mW E.I.R.P. max
TRANSMITTER INPUT	
Connector	4-Pin male mini connector (TA4M)
Configuration	Unbalanced
Maximum Input Level (1 kHz at 1% THD)	+8.4 dBV (7.5 Vp-p)
Antenna Type	Dual Band Internal Monopole
Pin Assignments TA4M	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

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



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GLX-D+ DUAL BAND DIGITAL WIRELESS

GLXD+ DUAL BAND FREQUENCY MANAGER (GLXD+FM)

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



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.

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



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GLX-D+ DUAL BAND DIGITAL WIRELESS

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.

