

GROUNDBREAKING WIRELESS TECHNOLOGY —  
 THIS IS NOTHING SHORT OF A REVOLUTION.

GLX-D® Advanced Digital Wireless is the best-sounding, easiest to use multi-system solution for small-to-medium houses of worship, education facilities and music performance venues.

System Specifications

**Compatibility**  
 Operate up to 9 compatible systems in typical setting, up to 11 maximum under ideal conditions

**System Operating Range**  
 Indoors: Up to 100 feet (30 m) typical, with a maximum of 200 feet (60 m) under ideal conditions  
 Outdoors: Up to 65 feet (20 m) typical, with a maximum of 165 feet (50 m) under ideal conditions

**Transmit Mode**  
 Shure GLX-D Proprietary Digital

**Audio Frequency Response**  
 20 Hz – 20 kHz  
 Note: Dependent on microphone type

**Dynamic Range**  
 120 dB, A-weighted

**Latency**  
 Groups 1 and A: 4.0 ms  
 Groups 2, 3, 4 and B: 7.3 ms

**RF Sensitivity**  
 -88 dBm, typical

**Total Harmonic Distortion**  
 0.2%, 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 1/4-inch output.

**Battery Life**  
 Up to 16 hours  
 NOTE: All Specifications are subject to change. Performance may vary depending on country regulations and operating environment.

Transmitter Specifications

**GLXD1 Bodypack Transmitter**

**Dimensions**  
 90.4 × 64.5 × 22.9 mm (3.56 × 2.54 × 0.90 in.), H × W × D

**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)

Frequency Manager, Receiver & Antenna Specifications

**UA846Z2 Frequency Manager**

**Power Requirements**  
 15 VDC

**DC Output**  
 15 VDC (×6)

**Output Current**  
 Combined total from all DC outputs 3.8 A, maximum

**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 Connector Type**  
 Reverse SMA

**RF Frequency Range**  
 2400 to 2483.5 MHz

**Receiver Port Isolation**  
 35 dB, typical

**Impedance**  
 50 Ω

**Maximum Antenna Input Power**  
 -10 dBm

**Maximum Receiver Port Input Power**  
 +15 dBm

**RF Output Connector Type**  
 Reverse SMA

**RF Frequency Range**  
 2400 to 2483.5 MHz

**Output Intercept Point (OIP3)**  
 48 dBm, typical

**Impedance**  
 50 Ω

**Reverse Isolation**  
 Output to Input 35 dB, typical

**Gain**  
 Input to any output port -3 to 0 dB

**Configuration**  
 Unbalanced

**Maximum Input Level**  
 (1 kHz at 1% THD) -8.4 dBV (7.5 Vp-p)

**Antenna Type**  
 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)

**GLXD4R Rack Mount Receiver**

**Dimensions**  
 42 × 197 × 163 mm (1.7 × 7.8 × 6.4 in.) H × W × D

**Weight**  
 907.2 g (32 oz.) without batteries

**Housing**  
 Steel

**Power Requirements**  
 14 to 18 VDC (tip positive with respect to ring) 550 mA

**Spurious Rejection**  
 >35 dB, typical

**Gain Adjustment Range**  
 -18 to 42 dB in 1 dB steps

**Phantom Power Protection**  
 Yes

**Mic/Line Switch**  
 30 dB Pad

**Receiver Antenna Input Impedance**  
 50 Ω

**Antenna Type**  
 1/4 Wave Sleeve Dipole

**Maximum Input Level**  
 -20 dBm

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

**GLXD2 Handheld Transmitter**

**Dimensions**  
 (SM58)  
 252 × 51 mm (9.9 × 2.0 in.) L × Dia.

**Weight**  
 (SM58, without batteries)  
 267 g (9.4 oz.)

**Power Requirements**  
 3.7 V Rechargeable Li-Ion

**PA805Z2-RSMA Passive Directional Antenna**

**Frequency Range**  
 <2:1 Voltage Standing Wave Ratio (VSWR)  
 2050 to 2700 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**  
 70 g (2.5 oz.)

SHURE®  
 LEGENDARY  
 PERFORMANCE™

GLX-D® ADVANCED  
 Digital Wireless System

GLX-D® ADVANCED DIGITAL WIRELESS

# THE EASIEST MULTI-SYSTEM WIRELESS SOLUTION

SHURE®  
 LEGENDARY  
 PERFORMANCE™

**Europe, Middle East, Africa:**  
 Shure Europe GmbH  
 Jakob-Dieffenbacher-Str. 12,  
 75031 Eppingen, Germany

Phone: +49-7262-92490  
 Fax: +49-7262-9249114  
 Email: info@shure.de  
 www.shure.eu

**United States, Canada, Latin America, Caribbean:**  
 Shure Incorporated  
 5800 West Touhy Avenue  
 Niles, IL 60714-4608 USA

Phone: +1 847-600-2000  
 Fax: +1 847-600-1212 (USA)  
 Fax: +1 847-600-6446  
 Email: info@shure.com  
 www.shure.com

**Asia, Pacific:**  
 Shure Asia Limited  
 22/F, 625 King's Road  
 North Point, Island East  
 Hong Kong

Phone: +852-2893-4290  
 Fax: +852-2893-4055  
 Email: info@shure.com.hk  
 www.shureasia.com



GLX-D® Advanced Digital Wireless

EXCEPTIONAL MULTI-SYSTEM RELIABILITY.

With exceptional audio clarity and award-winning features, GLX-D® Advanced Digital Wireless is the best choice to provide music venues, education institutes and houses of worship with seamless setup, intelligent rechargeability and superior multi-system wireless performance.

SYSTEM COMPONENTS

Frequency Manager

UA846Z2 GLX-D Frequency Manager

- Provides advanced frequency management to a linked receiver community for improved RF performance and increased channel count
- Link multiple receivers via RF ports for patented data communication and traditional antenna distribution
- Revolutionary intelligent frequency management quickly identifies the best frequencies
- Identifies and assigns optimal frequencies to receiver/transmitter pairs
- In case of interference, automatically and seamlessly transitions to backup frequencies
- Provides power to the GLXD4R receivers, eliminating need for power strips or multiple outlets.



Wireless Receiver

GLXD4R Rack Mount Receiver

- Integrated battery charge port for intelligent Shure lithium-ion transmitter batteries, two-color charge indicator LED
- Detachable antennas for remote mounting
- Remote adjustable transmitter gain control
- Hi-res LCD screen status display
- XLR and ¼" output connectors
- Rugged metal chassis design
- Included rack mount hardware



Wireless Transmitters

GLXD1 Bodypack Transmitter  
GLXD2 Handheld Transmitter

- Automatically links to GLXD4R receiver
- Microphone Options
  - GLXD1 accommodates a variety of Shure microphone options including instrument, lavalier and head-worn options
  - GLXD2 provides legendary Shure microphone options including the industry-standard SM58®
- Operating Range
  - Indoors: Up to 30 m (100 feet) typical, with a maximum of 60 m (200 feet) under ideal conditions
  - Outdoors: Up to 20 m (65 feet) typical, with a maximum of 50 m (165 feet) under ideal conditions
- Up to 16 hours of use from a full charge
- Sophisticated design with durable, lightweight construction



Advanced Frequency Management

GLX-D® Advanced Digital Wireless products and accessories unlock and expand key GLX-D frequency management features making it easy to rely on seamless, crystal-clear audio.

1. Using One GLX-D Frequency Manager

- Connect up to six GLXD4R Rack Mount Receivers via the RF ports
- Remote mounted antennas should be connected to the system to minimize interference
- 2.4 GHz band is scanned to locate the best frequencies available
- Best frequencies are assigned to the receivers and transmitters, updating automatically if interference is detected



2. Using two GLX-D Frequency Managers

- Connect the antenna inputs of the second Frequency Manager to the corresponding cascade ports of the first Frequency Manager
- Enables confident operation of up to 9 simultaneous systems in typical conditions (11 in optimal conditions)
- Once set up correctly, a system of GLX-D Advanced Wireless products is ready to go at the flick of the power switch



REMOTE MOUNTING ACCESSORIES

Passive Directional Antenna



PA805Z2-RSMA

- Improved wireless reception: 8 dB of passive directional antenna gain
- Improved rejection of interference from 2.4 GHz sources: 24dB front-to-back ratio for improved rejection of off access signals
- Includes 3 m (10') RMSA cable

Mounting Kit



UA505 Mounting Kit

Remote mount PA805Z2-RSMA and UA8-Z2 antennas in permanent installations

Antenna Cables

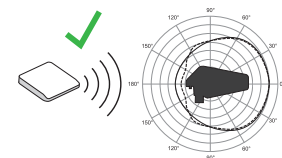
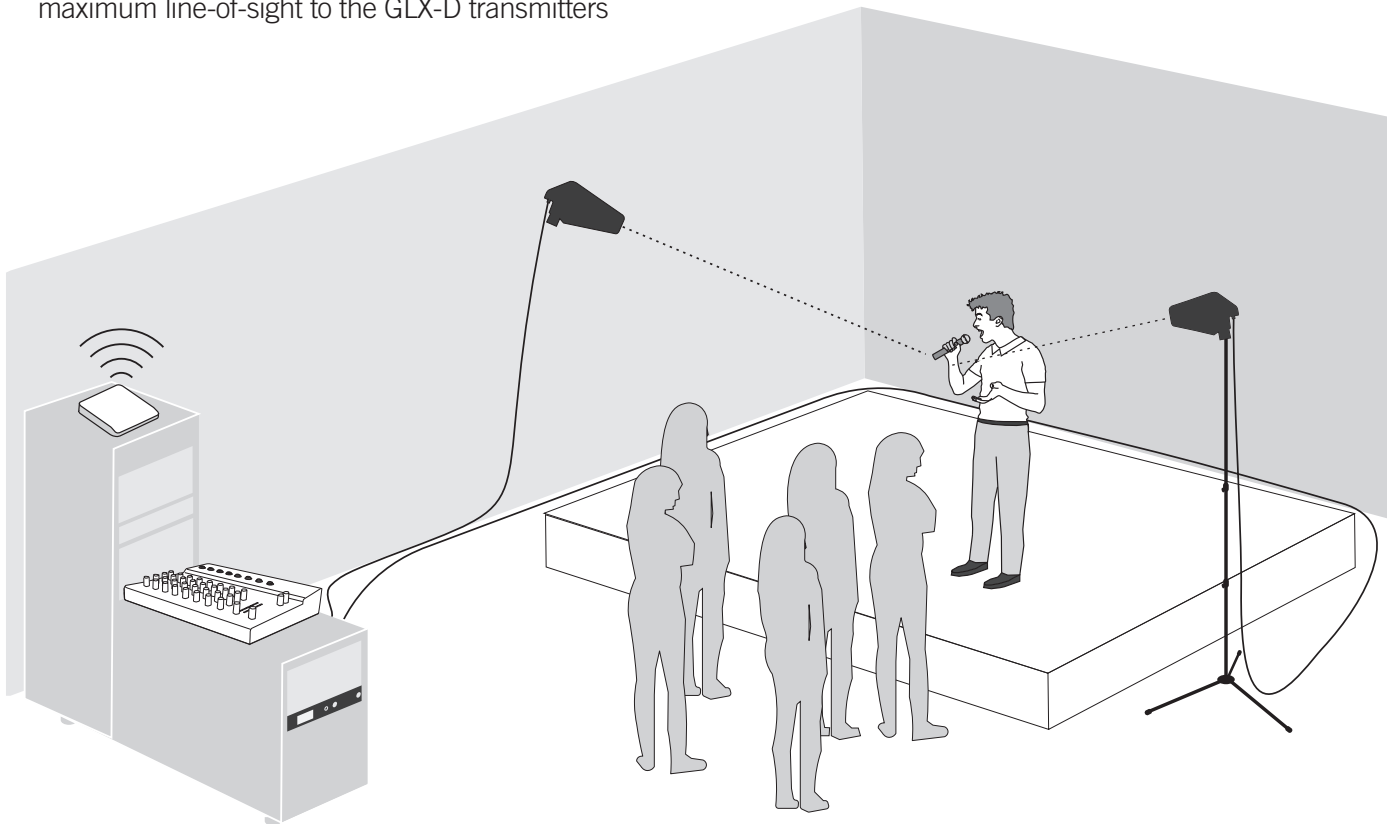


RSMA Cables

50 Ω coaxial RF cables available in lengths of 0,6 m, 7,6 m, 15,2 m and 30,5 m (6, 25, 50 and 100 feet) for installation-specific antenna placement

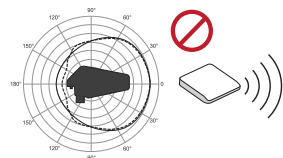
3. Remote Mount Placement

Remote mounted antennas should be positioned for maximum line-of-sight to the GLX-D transmitters



4. Directional Antenna Positioning

Position the rear of the antenna to a known wireless access point, with the front pointing to the transmitters.



RECHARGEABLE POWER MANAGEMENT

GLX-D transmitters feature best-in-class lithium-ion batteries that quickly recharge using the charging port on the receiver, or a variety of optional USB connectors. Staying ready for the show has never been simpler.



**More performing, less recharging.**  
Get up to 16 hours of use from a single full charge.



**Ready to go when time is tight.**  
Connect for a 15-minute quick charge and count on up to 1.5 hours of performance.



**An accurate pulse on battery life.**  
Precision metering displays in hours and minutes on the GLXD4R receiver's LCD screen.



**The power to waste less.**  
Each rechargeable battery delivers up to 10,000 hours of regular use, the equivalent of up to 2,500 disposable alkaline batteries.

Charge battery in-transmitter with:



USB charge cable



USB wall charger  
(available separately)



USB car charger  
(available separately)



GLXD4R integrated charge port



USB battery dock charger  
(available separately)