

GLX-D[®] ADVANCED DIGITAL WIRELESS



Rock-solid RF performance for multiple system installations

Groundbreaking GLX-D[®] Advanced Digital Wireless systems enable exceptional digital audio clarity, intelligent rechargeability and seamless operation—available in rack mount receiver system configurations for use with GLX-D Advanced Frequency Managers and accessories for small-to-medium installations.

PRODUCT HIGHLIGHTS

Automatic Frequency Management

2.4 GHZ frequency band

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

Legendary Shure audio quality and rugged construction

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 Propietary Digital			
Audio Frequency Response	20 Hz – 20 kHz Note: Dependent on microphone type			
Dynamic Range	120 dB, A-weighted			
Latency	Groups 1 and A: Groups 2, 3, 4 and B: 4.0 ms 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.			

Optional Accessories and Replacement Parts

PA805Z2-RSMA	Passive Directional Antenna 2.4 GHz	PS60	Power Supply (UA846Z2)	UA802-RSMA	0.6 m (2 ft.) Reverse SMA Cable
UA8-2.4GHZ	1/2 Wave Antenna, 45 deg. (2.4 GHz)	PS43	Power Supply (GLXD4R)	UA806-RSMA	1.8 m (6 ft.) Reverse SMA Cable
UA505-RSMA	Wall Mount for PA805-RSMA or UA8-2.4 GHz	SB902	Lithium Ion Rechargeable Battery	UA825-RSMA	7.6 m (25 ft.) Reverse SMA Cable
UA221-RSMA	Reverse SMA Passive Antenna Splitter	SBC10-USB	Micro-USB Battery Charger	UA850-RSMA	15.2 m (50 ft.) Reverse SMA Cable
95A32436	Reverse SMA Bulkhead Adapters	SBC10-902	Standalone Single Battery Charger	UA8100-RSMA	30.4 m (100 ft.) Reverse SMA Cable
		SBC-CAR	Car Battery Charger		

Component Specifications

GLX-D Advanced Passive Directional Antenna (PA805Z2-RSMA)

The GLX-D Advanced Passive Directional Antenna (PA805Z2-RSMA) is considered a key part of any GLX-D Advanced Digital Wireless installation. These antennas both improve reception of GLX-D transmitter signals and minimize interference from any 2.4GHz sources near receivers with appropriate installed placement.

Frequency Range <2:1 Voltage Standing Wave Ration (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	$105 \times 164 \times 27.5$ mm (4.1 × 6.5 × 1.1 in.) H × W × D
Net Weight	2.5 oz. (70 g)



GLX-D Advanced Passive Directional Antenna (PA805Z2-RSMA)



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GLX-D Advanced Frequency Manager (UA846Z2)

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		RF Output			
Connector Type	Reverse SMA	Connector Type	Reverse SMA		
RF Frequency Range	2400 to 2483.5 MHz	RF Frequency Range	2400 to 2483.5 MHz		
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		



GLXD4R Rack Mount Receiver

42 × 197 × 163 mm (1.7 × 7.8 × 6.4 in.) H × W × D			
907.2 g (32 oz.) without batteries			
Steel			
14 to 18 VDC (tip positive with respect to ring), 550 mA			
>35 dB, typical			
-18 to 42 dB in 1 dB steps			
Yes			
XLR Output	Balanced		
6.35 mm (1/4") output	Impedance balanced		
XLR Output	100 Ω		
6.35 mm (1/4") output	100 Ω (50 Ω, Unbalanced)		
XLR	LINE setting= +18 dBV, MIC setting= -12 dBV		
6.35 mm (1/4")	+12 dBV		
XLR Output	1=ground, 2=hot, 3=cold		
6.35 mm (1/4") connector	Tip=audio, Ring=no audio, Sleeve=ground		
30 dB Pad			
50 Ω			
1/2 Wave Sleeve Dipole			
–20 dBm			
	42 × 197 × 163 mm (1.7 × 7.8 × 6.4 in.) H 907.2 g (32 oz.) without batteries Steel 14 to 18 VDC (tip positive with respect to ring >35 dB, typical -18 to 42 dB in 1 dB steps Yes XLR Output 6.35 mm (1/4*) output XLR Output 6.35 mm (1/4*) output XLR Output 6.35 mm (1/4*) XLR Output 6.35 mm (1/4*) XLR Output 6.35 mm (1/4*) 30 dB Pad 50 Ω ½ Wave Sleeve Dipole -20 dBm		



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GLXD1 Bodypack Transmitter

Dimensions	90.4 x 64.5 x 22.9 mm (3.56 x 2.54 x 0.90 in.), H x W x D (without antenna)	
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	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)	



GLXD1 Bodypack Transmitter

GLXD2 Handheld Transmitter

Dimensions						
	Model	Α	В	С		
	SM58	51 mm, 2.0 in.	252 mm, 9.9 in.	37 mm, 1.5 in.		
	BETA 58	51 mm, 2.0 in.	252 mm, 9.9 in.	37 mm, 1.5 in.		
$\hat{\mathbf{r}}$	SM86	49 mm, 1.9 in.	252 mm, 9.9 in.	37 mm, 1.5 in.		
	BETA87A	51 mm, 2.0 in.	252 mm, 9.9 in.	37 mm, 1.5 in.		
Weight						
	SM58	267 g (9.4 oz.) without batteries				
	BETA 58	221 g (7.8 oz.) without batteries				
	SM86	275 g (9.1 oz.) without batteries				
	BETA87A	264 g (9.3 oz.) without batteries				
Housing	Molded Plastic	Molded Plastic				
Power Requirements 3.7 V Rechargeable Li-Ion		e Li-Ion				
RF Output Power 10 mW E.I.R.P. max						
Maximum Input Level	145 dB SPL	145 dB SPL				



GLXD2 Handheld Transmitter

