



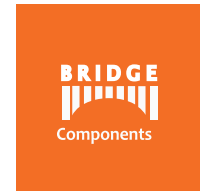
BRIDGE
Components

BRIDGE

ACTIVE SOLUTION

PRODUCT SELECTION GUIDE.

www.bridgecomponents.com



ACTIVE SOLUTION SELECTION GUIDE

The Bridge Component Product Selection Guide is designed to help engineers and system designers quickly identify the most suitable solutions for their applications. Bridge Components offers a comprehensive portfolio of high-performance products, clearly organized to simplify the selection process.



**High-quality products from
Bridge Components.**

TABLE OF CONTENT

DIGITAL RF REPEATER	02
DIGITAL FIBER OPTICAL REPEATER	03
ANALOG RF REPEATER	04
ANALOG FIBER OPTICAL REPEATER	05
FREQ-SHIFT MICROWAVE REPEATER	06

DIGITAL RF REPEATER



Single-band



Dual-band

The BRIDGE RF Repeater is a cost-effective solution for wirelessly forwarding and bidirectionally amplifying uplink and downlink cellular signals. It supports single-band, dual-band, and tri-band mobile communication signal enhancement and is widely deployed to quickly address indoor coverage challenges.

Built on an advanced digital platform, the BRIDGE RF Repeater enables high-speed signal processing with stable gain control and multiple output power options. It is compatible with 2G, 3G, 4G, and 5G mobile communication systems.

All BRIDGE products are manufactured using robust materials and high-quality components, ensuring durability, stable performance, and long-term reliability.

DIGITAL RF REPEATER

Category	PN	Frequency Range	Adjustable Bandwidth	Max DL Output Power	Max Gain	Connector	Usage
RF Repeater (Dual-band)	41-WAL07L1840-HE1F	FDD-LTE700MHz, B28	0.2-45MHz	37dBm, 5W	90dB	N Female or 4.3-10 Female	Indoor & Outdoor
		FDD-LTE1800MHz, B3	0.2-75MHz	40dBm, 10W	90dB		
RF Repeater (Tri-band)	41-WAL07182143-HE1T	FDD-LTE700MHz, B28	0.2-45MHz	33dBm, 2W	85dB	N Female or 4.3-10 Female	Indoor & Outdoor
		FDD-LTE1800MHz, B3	0.2-75MHz	37dBm, 5W	90dB		
		FDD-LTE2100MHz, B1	0.2-60MHz	43dBm, 20W	90dB		
Home Booster (Single-band)	41-BWBL1067	FDD-LTE2600MHz, B7	0.2-20MHz	13dBm, 20mW	67dB	SMA Female	Indoor
Home Booster (Dual-band)	41-BPBAL18W2117- 1	FDD-LTE1800MHz, B3	0.2-20MHz	17dBm, 50mW	70dB	N Female	Indoor
		FDD-LTE2100MHz, B1					

DIGITAL FIBER OPTICAL REPEATER

MU



RU



Low-power RU (LPRU)

Medium-power RU (MPRU)

The BRIDGE Fiber Optical Repeater System addresses indoor and outdoor coverage challenges through a distributed architecture consisting of a Master Unit (MU) and one or more Remote Units (RUs). The MU acquires signal resources directly from the base station and transmits them optically to RUs deployed in different locations, effectively extending coverage and enhancing signal strength in areas with weak or no service.

The BRIDGE Fiber Optical Repeater is built on an advanced digital platform that enables high-speed signal processing, stable gain control, and multiple output power options. It supports dual-band mobile communication signal enhancement and is compatible with 2G, 3G, 4G, and 5G networks. The system offers a wide range of customizable features, including multiple fiber-optic connector options. An advanced solution is also available, allowing the deployment of multiple RUs with different output power levels, all centrally managed through a single hybrid MU.

All BRIDGE products are manufactured using robust materials and high-quality components, ensuring durability, stable performance, and long-term reliability.

DIGITAL FIBER OPTICAL REPEATER

Category	PN	Frequency Range	Operation Bandwidth	Max DL Output Power (RU)	Max Gain	Connector	MU:RU	Usage
Fiber Optical Repeater (Dual-band)	41-FxWL18L2121-C1	FDD-LTE1800MHz, B3 FDD-LTE2100MHz, B1	Wide Band	21dBm, 125mW	80dB	SMA Female FC/APC	1:8	Indoor
Fiber Optical Repeater (Dual-band) 2x SISO	41-FXWL18L2133-C1	FDD-LTE1800MHz, B3 FDD-LTE2100MHz, B1	Wide Band	2x 33dBm, 2W	85dB	SMA Female (MU) N Female (RU) FC/APC	1:4	Indoor
Fiber Optical Repeater (Dual-band)	FXWL18N3524-C1	FDD-LTE1800MHz, B3 FDD-NR3500MHz, n78	Wide Band	21dBm, 125mW 24dBm, 250mW	80dB	SMA Female FC/APC	1:8	Indoor
Fiber Optical Repeater (Dual-band) 2x SISO	41-FXWL18N3533-C1	FDD-LTE1800MHz, B3 FDD-NR3500MHz, n78	Wide Band	2x 33dBm, 2W	85dB	SMA Female (MU) N Female (RU) FC/APC	1:4	Indoor
Hybrid Fiber Optical Repeater (Dual-band)	41-FXWL18L21XXA-C1	FDD-LTE1800MHz, B3 FDD-LTE2100MHz, B1	Wide Band	21dBm, 125mW 2x 33dBm, 2W 37dBm, 5W	70dB 85dB 85dB	SMA Female (MU) SMA Female (LPRU) N Female (MPRU) FC/APC	1:8	Indoor

ANALOG RF REPEATER



20dBm



27dBm



33dBm



37dBm

The BRIDGE RF Repeater is a cost-effective solution for wirelessly forwarding and bidirectionally amplifying uplink and downlink cellular signals. It supports dual-band and tri-band signal enhancement and is widely deployed to quickly address indoor coverage deficiencies.

The BRIDGE RF Repeater is built on an advanced analog platform that enables rapid signal amplification with stable gain and multiple output power options. It is compatible with 2G, 3G, 4G, and 5G mobile communication systems.

All BRIDGE products are manufactured using robust materials and high-quality components, ensuring durability, stable performance, and long-term reliability.

ANALOG RF REPEATER

Category	PN Series	Frequency Band	Operation Bandwidth	Max DL Output Power	Max Gain	Connector	Usage
RF REPEATER (Dual-band)	41-WWL18N21XX-HE1	B3, n1 FDD-LTE1800MHz FDD-NR2100MHz	Wide Band	20dBm, 100mW	65dB	N Female	Indoor
				27dBm, 500mW	80dB		Indoor
				33dBm, 2W	85dB		Indoor
				37dBm, 5W	90dB		Indoor & Outdoor
RF REPEATER (Tri-band)	41-WWL09L18N21xx-HE1	B8, B3, n1 FDD-LTE900MHz FDD-LTE1800MHz FDD-NR2100MHz	Wide Band	20dBm, 100mW	65dB	N Female	Indoor
				27dBm, 500mW	80dB		Indoor
				33dBm, 2W	85dB		Indoor
				37dBm, 5W	90dB		Indoor & Outdoor
RF REPEATER (Tri-band)	41-WWL18L21N35XX-HE1	B3, B1, n78 FDD-LTE1800MHz FDD-LTE2100MHz TDD-NR3500MHz	Wide Band	20dBm, 100mW	65dB	N Female	Indoor
				27dBm, 500mW	80dB		Indoor
				37dBm, 5W	90dB		Indoor & Outdoor

ANALOG FIBER OPTICAL REPEATER

MU



RU



20dBm



27dBm



33dBm



37dBm

The BRIDGE Fiber Optical Repeater System addresses indoor and outdoor coverage challenges through a distributed architecture consisting of a Master Unit (MU) and one or more Remote Units (RUs). The MU acquires signal resources directly from the base station and transmits them optically to RUs located in separate areas, effectively extending coverage and enhancing signal strength in locations with weak or no service.

The BRIDGE Fiber Optical Repeater utilizes an advanced analog platform to enable fast signal amplification with stable gain and multiple output power options. It supports dual-band, tri-band, and quad-band configurations and is compatible with 2G, 3G, 4G, and 5G mobile communication systems. The system also offers a range of customizable features, including multiple fiber-optic connector options.

All BRIDGE products are manufactured using robust materials and high-quality components, ensuring durability, stable performance, and long-term reliability.

ANALOG FIBER OPTICAL REPEATER

Category	PN Series	Frequency Band	Operation Bandwidth	Max DL Output Power (RU)	Max Gain	Connector	MU:RU	Usage
FIBER OPTICAL REPEATER (Dual-band)	41-FXWM0405XX-C1	B3, n1 FDD-LTE1800MHz FDD-NR2100MHz	Wide Band	20dBm, 100mW	40dB	N Female LC/UPC	1:4	Indoor
				27dBm, 500mW	45dB		1:8	Indoor
				33dBm, 2W	50dB		1:16	Indoor
				37dBm, 5W	55dB			Indoor & Outdoor
FIBER OPTICAL REPEATER (Tri-band)	41-FXWM0403XX-C1	B8, B3, n1 FDD-LTE900MHz FDD-LTE1800MHz FDD-NR2100MHz	Wide Band	20dBm, 100mW	40dB	N Female LC/UPC	1:4	Indoor
				27dBm, 500mW	45dB		1:8	Indoor
				33dBm, 2W	50dB		1:16	Indoor
				37dBm, 5W	55dB			Indoor & Outdoor
FIBER OPTICAL REPEATER (Tri-band)	41-FXWM0406XX-C1	B3, n1, n78 FDD-LTE1800MHz FDD-NR2100MHz FDD-NR3500MHz	Wide Band	17dBm, 50mW	40dB	N Female LC/UPC	1:4	Indoor
				20dBm, 100mW	40dB		1:8	Indoor
				27dBm, 500mW	45dB		1:16	Indoor
				37dBm, 5W	55dB			Indoor & Outdoor
FIBER OPTICAL REPEATER (Quad-band)	41-FXWM0423XX-C1	B28, B8, B3, n1 FDD-LTE700MHz FDD-LTE900MHz FDD-LTE1800MHz FDD-NR2100MHz	Wide Band	27dBm, 500mW	45dB	N Female LC/UPC	1:8	Indoor
				37dBm, 5W	55dB			Indoor & Outdoor

FREQ-SHIFT MICROWAVE REPEATER

MU



The BRIDGE Repeater is designed to address signal coverage challenges in both indoor and outdoor environments. This frequency-shift microwave repeater supports DMR, TETRA, LTE, and NR technologies, making it well suited for long-distance coverage applications.

Similar to a radio-over-fiber solution, the system consists of a Main Unit (MU) and one or more Remote Units (RUs). The MU converts the base-station (BTS) signal to an unused link frequency—typically within the unlicensed 5.15–5.85 GHz microwave band—and transmits it to the RU. The RU then converts the link signal back to the original BTS frequency, amplifies it, and delivers strong, reliable coverage to the target area.

RU



All BRIDGE products are manufactured using high-quality, durable materials and incorporate next-generation chipsets and premium electronic components. This design ensures stable performance, high reliability, and a long operational lifespan.

FREQ-SHIFT MICROWAVE REPEATER

Category	PN Series	Frequency Band	Operation Bandwidth	Max DL Output Power	Max Gain	Microwave Band	Connector	MU:RU	Usage
FREQ-SHIFT MICROWAVE REPEATER	41-SXWL07L09XX-HE1	B23, B8 FDD-LTE700MHz FDD-NR900MHz	Wide Band	43dBm, 20W	50dB	5GHz	N Female or 4.3-10 Female	1:1	Indoor & Outdoor



CONTACT

A: No. 57-6, Anlin Rd.,
Xitun Dist.,
Taichung City 407,
Taiwan (R.O.C.)

T: +886 4-23832393