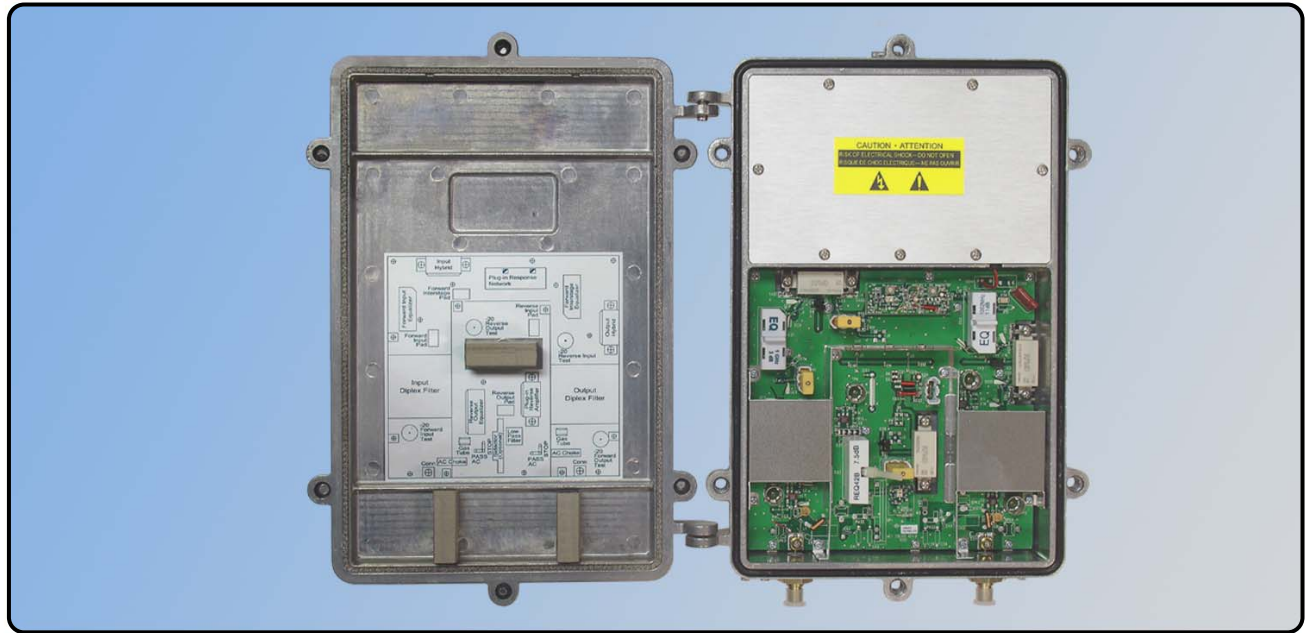


MFTJ MultiFlex-J 1002 MHz (MDU) Amplifier



The ACI Communications' MultiFlex-J Amplifier is specifically designed for use in vertical mount applications. It is ideal for apartment complexes or business high-rise situations.

The MultiFlex-J is a state-of-the-art, bi-directional amplifier offered as an indoor (UL, CUL & CE listed) mains powered (90-240 VAC) or an outdoor cable powered (40-90 VAC) amplifier.

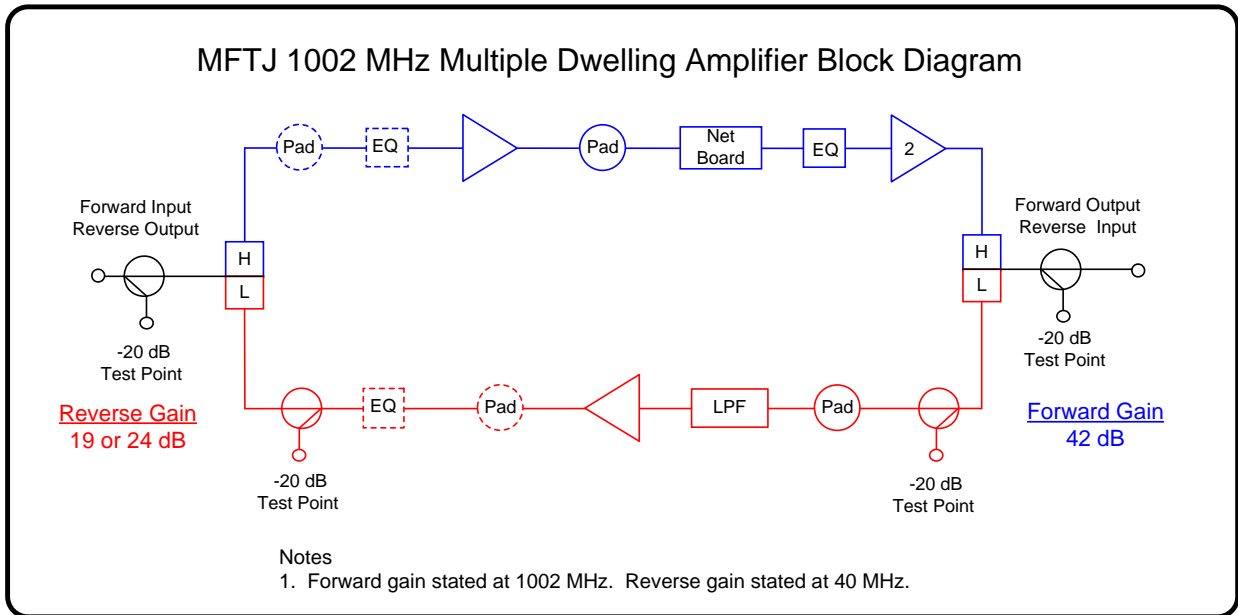
The standard MultiFlex-J has 42 dB of forward gain with a 0 dB operational slope from 54-1002 MHz. The reverse bandwidth is 5-42 MHz with reverse gain options of 19 dB, 24 dB or a jumper for passive reverse.

- Adjustments for forward/reverse gain, input/output levels, and slope are easily accomplished with the use of plug-in JXP style attenuators pads and equalizers.
- Forward slopes and levels are easily configured for 750, 870 or 1002 MHz operation with equalizer family selection.
- -20 dB directional coupler test points are provided in the forward path at both the input and output with separate test points in the reverse path.
- The amplifier is housed in a finned aluminum die-cast housing for superior heat dissipation.
- Mounting is accomplished using easily accessible external tabs allowing a variety of placements in vented lock boxes or pedestals.
- RF connections are made through high performance SCTE compliant "F" type cable or 5/8" standard hard-line type cable connectors allowing the flexibility to place the unit on any type of cable.

ACI Communications, Inc.		MFTJ 42/53 1002 MHz (MDU Amplifier)	
	Notes	Forward	Reverse
	1		RTA24HY-065 RTA30HY-065
Bandwidth (MHz)		54-1002	5-42
Station flatness	1	±0.5	±0.5
Gain (dB)	2	42.0	19.0 24.0
Slope (dB)	1	0 ±1.0	0 ±1.0
Return loss (dB) worst case	1	16.0	16.0
RF test point (dB)		-20.0 ±1.0	-20.0 ±1.0
Distortions Worst Case			
Channel loading	3,8	79	6
Rated output level (dBmV)	3	41/51	35
Rated output slope (dB)	3	10.0 ±1.0	0
Composite Triple Beat CTB (-dBc)	4	69.0	80.0
Composite Second Order CSO (-dBc) high side	4	70.0	79.0
Cross Modulation XMOD (-dBc)	5	69.0	72.0
Noise figure (dB)	6	8.0	9.0
Group Delay (ns)			
Forward (n + 3.58 MHz) worst case			30.0
Reverse (n + 1.5 MHz) worst case			36.0
Surge protection (kv)	8		6
Power Requirements (With Active Reverse Path)			
		Units	
Mains powered (90-240 VAC)		W	24.1 (Max)
Cable powered (40-90 VAC)		W	25.1 (Max)
Current Draw (With Active Reverse Path) 40-90 VAC only			
Input Ranges (Selectable)		Units	40-90
@ 40 VAC		A	0.82
@ 50 VAC		A	0.68
@ 60 VAC		A	0.57
@ 70 VAC		A	0.50
@ 80 VAC		A	0.45
@ 90 VAC		A	0.40
AC Power Passing Limit - AC by-pass current damage limit (amps)			
Cable powered Only (40 - 90 VAC)		A	10
PHYSICAL			
Dimensions (L X W X H)		in (cm)	13.00 X 9.25 X 2.75 (33.0 X 23.5 X 7.0)
Weight		lbs (kg)	7.9 (3.58)

Notes:

1. Single station measured with all forward and reverse pads and equalizers with 0 dB values.
2. Typical operating gain is measured with equalizers in all forward locations and 0 dB pads.
3. Standard channels flat per NCTA test methods, or sloped as indicated by rated output slope.
4. Worst case as measured on matrix distortion analyzer utilizing CW carrier.
5. Worst case as measured on matrix distortion analyzer utilizing a 15.75 KHz square wave and measured to nearest dB.
6. Single station noise figure measured with 0 dB pads and equalizers. For system calculations add 1 dB for equalizer loss and 1 dB loss for diplex.
7. 6 KV surge protection standard for line powered units. For cable powered units, 6 KV surge protection requires installation of the optional plug-in sidactor (P/N 090491 or 090689-01).
8. 550 MHz analog channel loading, 79 channels +450 MHz digital channel loading, 256 QAM at -6 dBc relative to its associated visual carrier.



Required Accessories

The following accessories are required for operation.

Forward all units - reverse if active

Plug-in equalizers	1 Forward	1 Reverse
Plug-in pad	1 Forward	1 Reverse

TYPE	PART NUMBER	RANGE (dB)	INCREMENTS (dB)
Forward	CEQ750/XX	1.5 to 21.0	1.5
Forward	CEQ870/XX	1.5 to 21.0	1.5
Forward	CEQ1G/XX	1.0 to 12.0	1.0
Forward	EQDA750/XX	0 to 25.5	1.5
Forward	EQDA870/XX	0 to 21.0	1.5
Forward	EQDA1G/XX	1.0 to 18.0	1.0
		20.0 to 30.0	2.0
Reverse	REQ42/XXB	0 to 12.0	1.5
Reverse	EQDA55/XX	0 to 12.0	1.0
Reverse	REQ65/XXB	0 to 12.0	1.0

Optional Accessories (Sold separately)

For 19 dB reverse gain (P/N RTA24HY-065)

For 24 dB reverse gain (P/N RTA30HY-065)

RF 5.5" long test probe (P/N 100685-01)

RF 1.57" long test probe (P/N TP-7504)

Surge protect sidactor-Cable powered only (P/N 090491 or 090689-01)

Attenuator Pads

Attenuators (JXP138-XX.X) from 0 to 20 in .5 dB increments

Ordering Information

The MultiFlex-J can be ordered in a number of variations. Each is defined by a part number which specifies a certain combination of options.

ORDERING MATRIX														October 31, 2011																																	
<h3 style="margin: 0;">MFTJ Configuration Sheet</h3> <p>Customer: _____</p> <p>Created By: _____ Order Date: _____</p>																																															
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