ACI Communications, Inc.

Serving the CATV Industry Since 1986

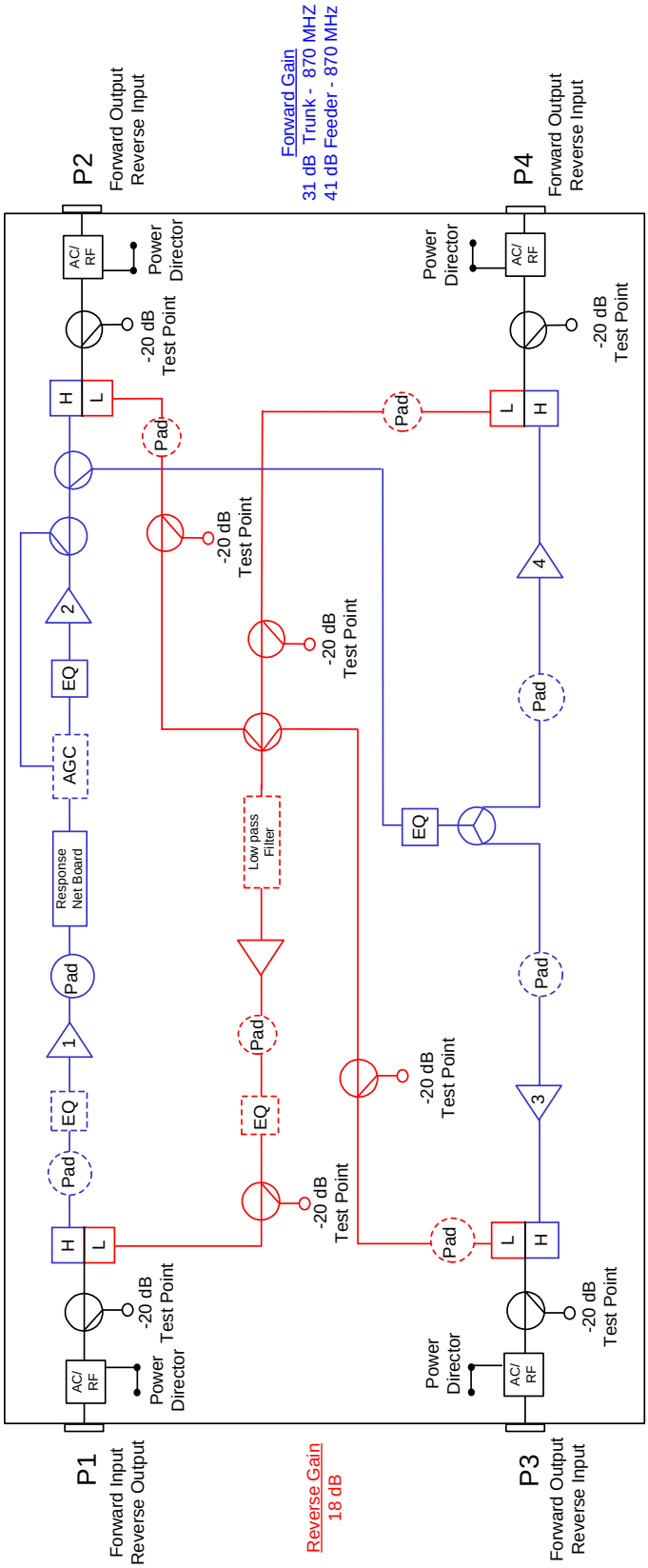
MiniFlex

Super Distribution Amplifiers 870 MHz

The ACI MiniFlex super distribution amplifier is a versatile platform with improved flexibility for use in hybrid fiber coax distribution architectures.

- 870 MHz
- 870 MHz may be dropped into the 750 MHz spacing
- Common 1 GHz housing platform
- 15 amp power passing
- Optional, plug-in surge protection
- CE qualified (SDA)
- -20 dB directional coupler test points
- AGC or thermal options
- 5 - 42 or 55 or 65 MHz reverse path
- Plug-in attenuator pads for each reverse path
- Plug-in equalizers
- Test points for each reverse path

SDAT (Type 1A, 1T & 1M) 870 MHz Amplifier Block Diagram



Note:
1. Forward gain stated at 870 MHz with AGC. Reverse gain stated at 40 MHz.

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ACI Communications, Inc.			Trunk Amplifier, SDAT 870 MHz (Type 1) 1 Trunk Output, 2 Feeder Outputs				
STATION PARAMETERS:	870 MHz 42-53 MHz Split						
	CONDITIONS	UNITS	SPECIFICATIONS				NOTES
Housing passband		MHz	5 to 1,000				
Input current capacity	Any port, worst case	Amperes	15				
Frequency range		MHz	5 - 10	11 - 600	600 - 750	751 - 870	
Hum modulation	Time domain @ rated current above	-dBc	55	65	60	55	
Return loss	Any port, worst case	dB	17.0				
Test Points							
Test point type	Directional coupler	N / A					
Test point level		-dB	20.0				Fwd & Rev
Test point accuracy	Forward TP	±dB	0.5				
Frequency range		MHz	5 to 7		7 to 42		
Test point accuracy	Reverse TP	±dB	0.75		0.5		
Test point accuracy	Reverse Injection	±dB	0.75		0.5		
Station Gain							
Station passband		MHz	54 to 870				
Station flatness - trunk out	Normalized w / 0 dB slope	±dB	0.50				
Station flatness - feeder out	Normalized w / 0 dB slope	±dB	0.75				
Gain - trunk (Type 1A & 1T)	+0.5/-0 @ 870 MHz	dB	31.0				Temperature stabilized
Gain - feeder (Type 1A & 1T)	+0.5/-0 @ 870 MHz	dB	41.0				Temperature stabilized
Gain - trunk (Type 1M)	+0.5/-0 @ 870 MHz	dB	34.0				Temperature stabilized
Gain - feeder (Type 1M)	+0.5/-0 @ 870 MHz	dB	44.0				Temperature stabilized
Gain control type		N / A	Plug-in pads				
Gain control steps	Pad value steps	dB	0.5				
Station Slope							
Operational slope - trunk & feeders	@ 54 / 550 / 870 MHz	dB	0 / 9.0 / 14.7				
Slope control type	Cable equalizers	N / A	Plug-in EQ's				
Slope control range	Includes cable equivalent	dB	-21.0 to +21.0				
Slope control steps	Equalizer value steps	dB	1.5 cable steps				Approx 1.1 dB slope steps
Station Group Delay							
Group delay	Channel 2 (Std)	nSec / 3.58 MHz	30				Typical 25
Group delay	Channel 3	nSec / 3.58 MHz	16				
Group delay	Channel 4	nSec / 3.58 MHz	10				
Group delay	Channel 5 & >	nSec / 3.58 MHz	3				
AGC							
Type		N / A	Single channel pilot AGC				
Range		dB	8.0				System compensation input change -3/+5 @ 870 MHz
Accuracy		±dB	0.5				
Nominal loss		dB	5.5				Loss @ room temp
Center frequency bandwidth		Fc +/- kHz	150				

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ACI Communications, Inc.			Trunk Amplifier, SDAT 870 MHz (Type 1) 1 Trunk Output, 2 Feeder Outputs				
550 MHz Analog Channel Loading, 79 Channels +320 MHz Digital Channel Loading 256 QAM, at -6 dBc relative to its associated visual carrier							
Station Output Levels							
Trunk out Port 2	@ 54 / 550 / 870 MHz	dBmV	26.3 / 35.3 / 41.0				
Feeder out Port 3 & 4	@ 54 / 550 / 870 MHz	dBmV	36.3 / 45.3 / 51.0				
Station Noise Figure							
Noise figure (w / 1 dB for input EQ loss)	Typical @ 54 MHz	dB	10.6				
Noise figure (w / 1 dB for input EQ loss)	Typical @ 550 MHz	dB	8.3				
Noise figure (w / 1 dB for input EQ loss)	Typical @ 870 MHz	dB	7.9				
Station Distortions			Trunk WC	Feeder Av.	Feeder WC	Trunk Av.	WC=worst case Av.=Average
Composite Triple Beat (CTB)		-dBc	76.0	69.0	67.0	78.0	
Cross Modulation (XMOD)		-dBc	68.0	61.0	58.0	70.0	
Composite Second Order (CSO-)	(Vc +0.75 & -1.25 MHz)	-dBc	68.0	70.0	63.0	76.0	
Composite Second Order (CSO+)	(Vc +1.25 MHz)	-dBc	71.0	74.0	67.0	78.0	
Carrier-to-Intermodulation Noise (CIN)		-dBc	74.0	67.0	65.0	76.0	
650 MHz Analog Channel Loading, 95 Channels +220 MHz Digital Channel Loading 256 QAM, at -6 dBc relative to its associated visual carrier							
Station Output Levels							
Trunk out Port 2	@ 54 / 650 / 870 MHz	dBmV	26.3 / 37.1 / 41.0				
Feeder out Port 3 & 4	@ 54 / 650 / 870 MHz	dBmV	36.3 / 47.1 / 51.0				
Station Noise Figure							
Noise figure (w / 1 dB for input EQ loss)	Typical @ 54 MHz	dB	10.6				
Noise figure (w / 1 dB for input EQ loss)	Typical @ 650 MHz	dB	8.1				
Noise figure (w / 1 dB for input EQ loss)	Typical @ 870 MHz	dB	7.9				
Station Distortions			Trunk WC	Feeder Av.	Feeder WC	Trunk Av.	WC=worst case Av.=Average
Composite Triple Beat (CTB)		-dBc	72.0	65.0	61.0	74.0	
Cross Modulation (XMOD)		-dBc	64.0	56.0	53.0	67.0	
Composite Second Order (CSO-)	(Vc +0.75 & -1.25 MHz)	-dBc	64.0	66.0	58.0	72.0	
Composite Second Order (CSO+)	(Vc +1.25 MHz)	-dBc	68.0	70.0	63.0	74.0	
Carrier-to-Intermodulation Noise (CIN)		-dBc	70.0	63.0	59.0	72.0	
750 MHz Analog Channel Loading, 110 Channels +120 MHz Digital Channel Loading 256 QAM, at -6 dBc relative to its associated visual carrier							
Station Output Levels							
Trunk out Port 2	@ 54 / 750 / 870 MHz	dBmV	26.3 / 38.8 / 41.0				
Feeder out Port 3 & 4	@ 54 / 750 / 870 MHz	dBmV	36.3 / 48.8 / 51.0				
Station Noise Figure							
Noise figure (w / 1 dB for input EQ loss)	Typical @ 54 MHz	dB	10.6				
Noise figure (w / 1 dB for input EQ loss)	Typical @ 750 MHz	dB	8.0				
Noise figure (w / 1 dB for input EQ loss)	Typical @ 870 MHz	dB	7.9				
Station Distortions			Trunk WC	Feeder Av.	Trunk Av.	Feeder WC	WC=worst case Av.=Average
Composite Triple Beat (CTB)		-dBc	68.0	61.0	71.0	57.0	
Cross Modulation (XMOD)		-dBc	59.0	51.0	63.0	47.0	
Composite Second Order (CSO-)	(Vc +0.75 & -1.25 MHz)	-dBc	61.0	63.0	68.0	55.0	
Composite Second Order (CSO+)	(Vc +1.25 MHz)	-dBc	65.0	68.0	71.0	61.0	
Carrier-to-Intermodulation Noise (CIN)		-dBc	66.0	59.0	69.0	55.0	

Revision date: 9/23/2008

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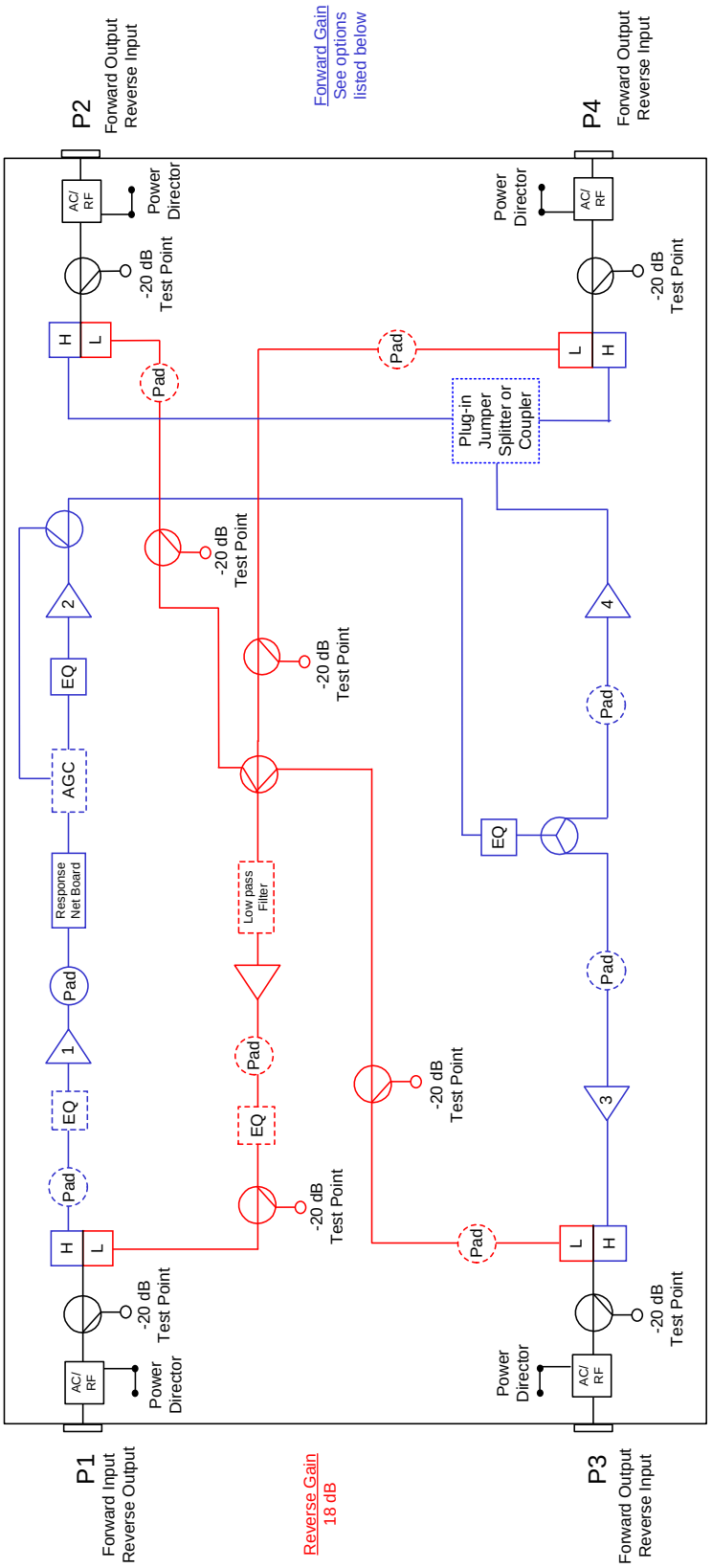
ACI Communications, Inc.			Trunk Amplifier, SDAT 870 MHz (Type 1) 1 Trunk Output, 2 Feeder Outputs			
REVERSE SPECTRUM:						
REVERSE - CHANNEL LOADING						
	Typically 23 each, 1.5 MHZ wide QPSKcChannels.					
Reverse - General	CONDITIONS	UNITS	SPECIFICATION			NOTES
Station passband		MHZ	5 TO 42			
Station flatness	Normalized w / 0 dB slope	±dB	0.5			
Reverse - Station Gain						
Gain	Minimum @ 40 MHz	dB	18.0			Temperature stabilized
Gain control type		N /A	Plug-in pads			
Gain control range		dB	12.0			
Gain control steps	Pad value steps	dB	0.5			
Reverse - Station Slope						
Slope control type	Cable equalizers	N / A	Plug-in EQs			
Slope control range		dB	0 to 12.0			
Slope control steps	Equalizer value steps	dB	1.5 cable steps			Approx.1.1 dB slope steps
Reverse - Station Output Levels						
@ Forward input port	Average	dBmV	35.0			
Reverse - Noise Figure						
Station noise figure (w / EQ)	Across the bandwidth	dB	13.0			
REVERSE - STATION DISTORTIONS						
Composite Second Order (CSO)	6 NTSC channel loading	-dBc	82.0			
Composite Tripe Beat (CTB)	6 NTSC channel loading	-dBc	90.0			
Cross Modulation (XMOD)	6 NTSC channel loading	-dBc	80.0			
Reverse - Station Group Delay						
Group delay	5 MHz	nSec / 1.5 MHz	36			
Group delay	7 MHz	nSec / 1.5 MHz	16			
Group delay	10 MHz	nSec / 1.5 MHz	4			
Group delay	35 MHz	nSec / 1.5 MHz	8			
Group delay	38.5 MHz	nSec / 1.5 MHz	25			
Power Requirements:						
Station configuration	Includes reverse	N / A	AGC	Thermal	Manual	
Power Requirements	Worst case	W	51.8	50.4	49.3	
AC Voltage						
Input ranges		VAC	40 to 90			
Current Draw (with AGC)						
@ 40 VAC	Maximum	A	1.30			
@ 50 VAC	Maximum	A	1.04			
@ 60 VAC	Maximum	A	0.86			
@ 70 VAC	Maximum	A	0.74			
@ 80 VAC	Maximum	A	0.65			
@ 90 VAC	Maximum	A	0.58			
Environmental						
Operating temperature		°F (°C)	-40 to +140 (-40 to +60)			
Physical						
Dimensions (H X W X D)		In, (cm)	6.75 X 14.25 X 9.00 (17.1 X 36.2 X 22.9)			
Weight		lbs. (kg)	16.0 (7.26)			

Revision date: 9/23/2008

SDAF (Type 2A-TRI, 2M-TRI, 2T-TRI) 870 MHz Amplifier Block Diagram



Notes:
1. Forward gain stated at 870 MHz with AGC. Reverse gain stated at 40 MHz.
2. Amplifiers are configured at the factory with jumper in Position #2.
   Splitters and couplers are sold separately.

Jumper Position #1

Port	Fwd Gain (dB) 870
P2	40.0
P3	40.0
P4	NA

Jumper Position #2

Port	Fwd Gain (dB) 870
P2	NA
P3	40.0
P4	40.0

SDASPLTR3.5

Port	Fwd Gain (dB) 870
P2	36.5
P3	40.0
P4	36.5

SDADC7

Port	Fwd Gain (dB) 870
P2	33.0
P3	40.0
P4	37.5

SDADC7

Port	Fwd Gain (dB) 870
P2	37.5
P3	40.0
P4	33.0

SDADC12

Port	Fwd Gain (dB) 870
P2	28.0
P3	40.0
P4	38.0

SDADC12

Port	Fwd Gain (dB) 870
P2	38.0
P3	40.0
P4	28.0

ACI Communications, Inc.			Configurable Bridger Amplifier, SDAF 870 MHz (Type 2-TRI) 2 or 3 Output Feeder					
STATION PARAMETERS:	870 MHz 42-53 MHz with Jumper in position #2							
Description	CONDITIONS	UNITS	SPECIFICATION					NOTES
Housing passband		MHz	5 to 1000					
Input current capacity	Any port, worst case	Amperes	15					
Frequency range		MHz	5 - 10	11 - 600	600 - 750	751 - 870		
Hum modulation	Time domain @ rated current above	-dBc	55	65	60	55		
Return loss	Any port, worst case	dB	17.0					
Test Points								
Test point type	Directional coupler	N / A						
Test point level(s)		-dB	20.0					Fwd & Rev
Test point accuracy	Forward TP	±dB	0.5					
Frequency range		MHz	5 to 7		7 to 42			
Test point accuracy	Reverse TP	±dB	0.75		0.5			
Test point accuracy	Reverse injection	±dB	0.75		0.5			
Station Gain								
Station passband		MHz	54 to 870					
Station flatness - feeder out	Normalized w / 0 dB slope	±dB	0.75					
Gain feeder (Type 2A-TRI & 2T-TRI)	+0.5/-0 @ 870 MHz	dB	40.0					Temperature stabilized
Gain feeder (Type 2M-TRI)	+0.5/-0 @ 870 MHz	dB	43.0					Temperature stabilized
Gain control type		N / A	Plug-in pads					
Gain control steps	Pad value steps	dB	0.5					
Station Slope								
Operational slope	@ 54 / 550 / 870 MHz	dB	0 / 9.0 / 14.7					
Slope control type	Cable equalizers	N / A	Plug-in EQ's					
Slope control range	Includes cable equivalent	dB	-21.0 to +21.0					
Slope control steps	Equalizer value steps	dB	1.5 cable steps					Approx 1.1 dB slope steps
Station Group Delay								
Group delay	Channel 2 (Std)	nSec / 3.58 MHz	30					Typical 25
Group delay	Channel 3	nSec / 3.58 MHz	16					
Group delay	Channel 4	nSec / 3.58 MHz	10					
Group delay	Channel 5 & >	nSec / 3.58 MHz	3					
AGC								
Type			Single channel pilot AGC					
Range		dB	8.0					System compensation input change -3/+5 @ 870 MHz
Accuracy		±dB	0.5					
Nominal loss		dB	5.5					Loss @ room temp
Center frequency bandwidth		Fc +/- kHz	150					

Revision date: 9/23/2008

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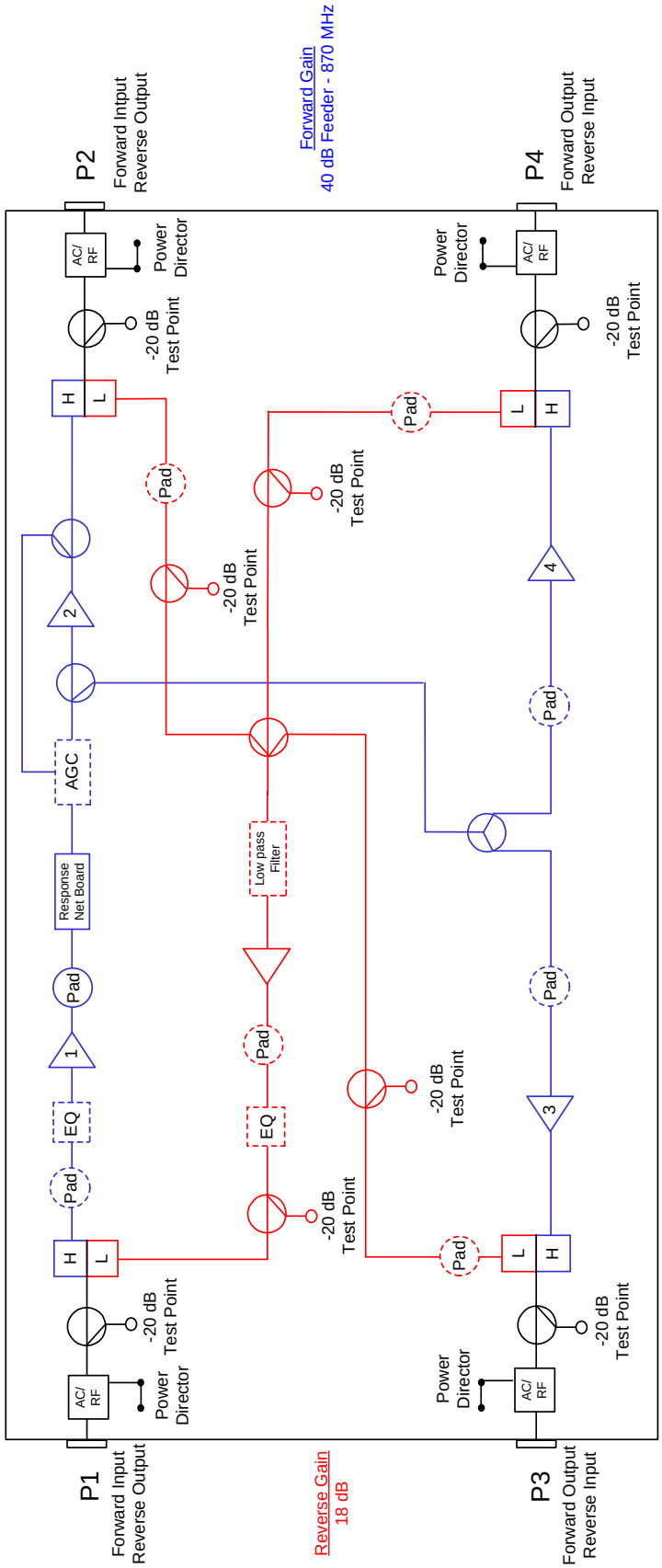
ACI Communications, Inc.			Configurable Bridger Amplifier, SDAF 870 MHz (Type 2-TRI) 2 or 3 Output Feeder		
550 MHz Analog Channel Loading, 79 Channels +320 MHz Digital Channel Loading 256 QAM, at -6 dBc relative to its associated visual carrier					
Station Output Levels					
Feeder out Port 3 & 4	@ 54 / 550 / 870 MHz	dBmV	36.3 / 45.3 / 51.0		
Station Noise Figure					
Noise figure (w /1 dB for input EQ loss)	Typical @ 54 MHz	dB	11.6		
Noise figure (w /1 dB for input EQ loss)	Typical. @ 550 MHz	dB	10.1		
Noise figure (w /1 dB for input EQ loss)	Typical @ 870 MHz	dB	11.6		
Station Distortions			Worst Case	Average	
Composite Triple Beat (CTB)		-dBc	69.0	71.0	
Cross Modulation (XMOD)		-dBc	61.0	64.0	
Composite Second Order (CSO-)	(Vc +0.75 & 1.25 MHz)	-dBc	63.0	68.0	
Composite Second Order (CSO+)	(Vc +1.25 MHz)	-dBc	67.0	71.0	
Carrier-to-Intermodulation Noise (CIN)		-dBc	67.0	69.0	
650 MHz Analog Channel Loading, 95 Channels +220 MHz Digital Channel Loading 256 QAM, at -6 dBc relative to its associated visual carrier					
Station Output Levels					
Feeder out Port 3 & 4	@ 54 / 650 / 870 MHz	dBmV	36.3 / 47.1 / 51.0		
Station Noise Figure					
Noise figure (w /1 dB for input EQ loss)	Typical @ 54 MHz	dB	11.6		
Noise figure (w /1 dB for input EQ loss)	Typical. @ 650 MHz	dB	10.2		
Noise figure (w /1 dB for input EQ loss)	Typical @ 870 MHz	dB	11.6		
Station Distortions			Worst Case	Average	
Composite Triple Beat (CTB)		-dBc	61.0	64.0	
Cross Modulation (XMOD)		-dBc	55.0	58.0	
Composite Second Order (CSO-)	(Vc +0.75 & -1.25 MHz)	-dBc	58.0	63.0	
Composite Second Order (CSO+)	(Vc +1.25 MHz)	-dBc	63.0	66.0	
Carrier-to-Intermodulation Noise (CIN)		-dBc	59.0	62.0	
750 MHz Analog Channel Loading, 110 Channels +120 MHz Digital Channel Loading 256 QAM, at -6 dBc relative to its associated visual carrier					
Station Output Levels					
Feeder out Port 3 & 4	@ 54 / 750 / 870 MHz	dBmV	36.3 / 48.8 / 51.0		
Station Noise Figure					
Noise figure (w /1 dB for input EQ loss)	Typical @ 54 MHz	dB	11.6		
Noise figure (w /1 dB for input EQ loss)	Typical. @ 750 MHz	dB	10.3		
Noise figure (w /1 dB for input EQ loss)	Typical @ 870 MHz	dB	11.6		
Station Distortions			Worst Case	Average	
Composite Triple Beat (CTB)		-dBc	56.0	59.0	
Cross Modulation (XMOD)		-dBc	48.0	52.0	
Composite Second Order (CSO-)	(Vc +0.75 & -1.25 MHz)	-dBc	56.0	64.0	
Composite Second Order (CSO+)	(Vc +1.25 MHz)	-dBc	61.0	61.0	
Carrier-to-Intermodulation Noise (CIN)		-dBc	54.0	57.0	

ACI Communications, Inc.			Configurable Bridger Amplifier, SDAF 870 MHz (Type 2-TRI) 2 or 3 Output Feeder			
REVERSE SPECTRUM:						
Reverse - Channel Loading						
	Typically 23 each, 1.5 MHz wide QPSK channels.					
Reverse - General	CONDITIONS	UNITS	SPECIFICATION			NOTES
Station passband		MHz	5 to 42			
Station flatness	Normalized w / 0 dB slope	±dB	0.5			
Reverse - Station Gain						
Gain	Minimum @ 40 MHz	dB	18.0			Temperature stabilized
Gain control type		N / A	Plug-in pads			
Gain control range		dB	12.0			
Gain control steps	Pad value steps	dB	0.5			
Reverse - Station Slope						
Slope control type	Cable equalizers	N / A	Plug-in EQs			
Slope control range		dB	0 to 12.0			
Slope control steps	Equalizer value steps	dB	1.5 cable steps			Approx. 1.1 dB slope steps
Reverse - Station Output Levels						
@ Forward input port		dBmV	35.0			
Reverse - Noise Figure						
Station noise figure (w/EQ)	Across the bandwidth	dB	13.0			
Reverse - Station Distortions						
Composite Second Order (CSO)	6 NTSC channel loading	-dBc	82.0			
Composite Triple Beat (CTB)	6 NTSC channel loading	-dBc	90.0			
Cross Modulation (XMOD)	6 NTSC channel loading	-dBc	80.0			
Reverse - Station Group Delay						
Group delay	5 MHz	nSec / 1.5 MHz	36			
Group delay	7 MHz	nSec / 1.5 MHz	16			
Group delay	10 MHz	nSec / 1.5 MHz	4			
Group delay	35 MHz	nSec / 1.5 MHz	8			
Group delay	38.5 MHz	nSec / 1.5 MHz	25			
Power Requirements:						
Station configuration	Includes reverse	N / A	AGC	Thermal	Manual	
Power Requirements	Worst case	W	46.3	44.9	43.8	
AC Voltage						
Input Ranges		VAC	40 to 90			
Current Draw (with AGC)						
@ 40 VAC	Maximum	A	1.16			
@ 50 VAC	Maximum	A	0.93			
@ 60 VAC	Maximum	A	0.77			
@ 70 VAC	Maximum	A	0.66			
@ 80 VAC	Maximum	A	0.58			
@ 90 VAC	Maximum	A	0.51			
Environmental						
Operating temperature		°F (°C)	-40 to +140 (-40 to +60)			
Physical						
Dimensions (H X W X D)		In, (cm)	6.75 X 14.25 X 9.00 (17.1 X 36.2 X 22.9)			
Weight		lbs. (kg)	16.0 (7.26)			

Revision date: 9/23/2008

SDBT (Type 6A, 6T & 6M) 870 MHz (Only) Amplifier Block Diagram



Note:
1. Forward gain stated at 870 MHz with AGC. Reverse gain stated at 40 MHz.

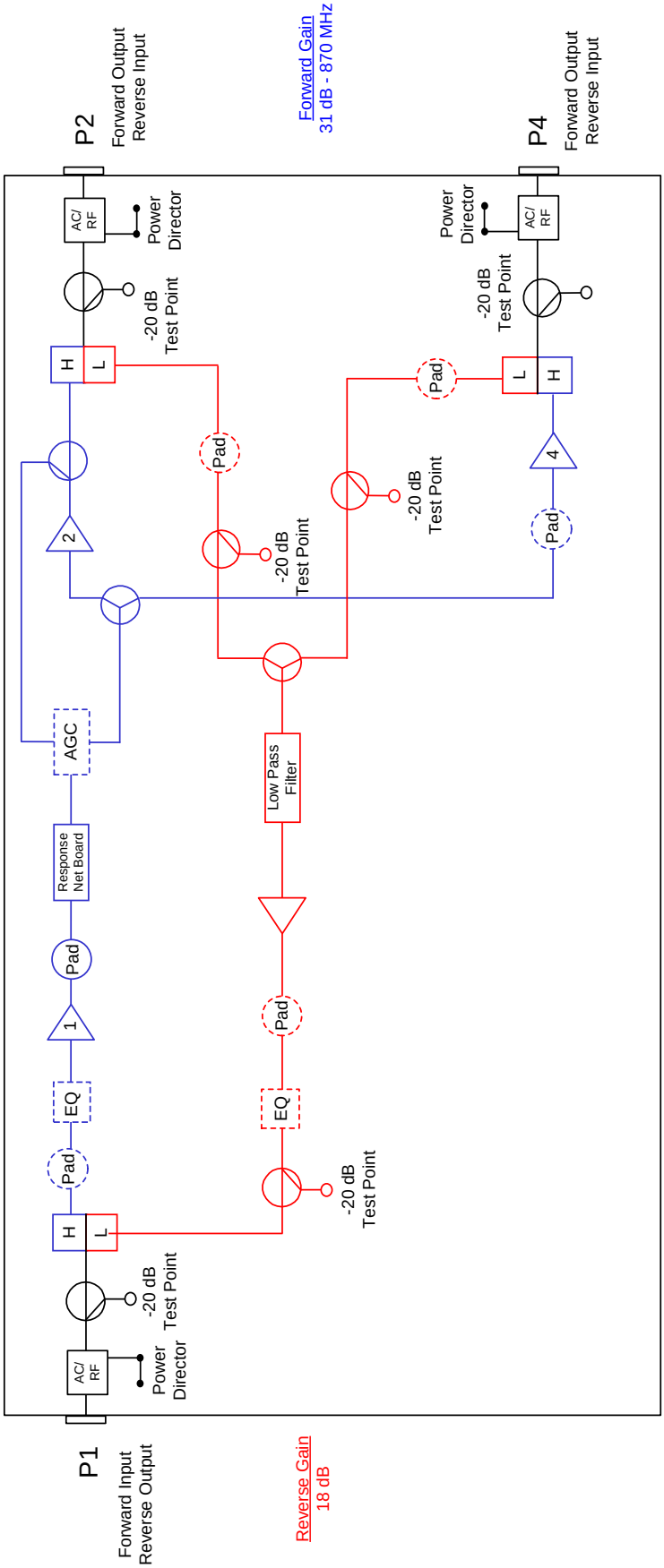
ACI Communications, Inc.®

ACI Communications, Inc.			High Performance Bridger Amplifier, SDBT 870 MHz (Type 6) 3 Output Feeder				
STATION PARAMETERS:	870 MHz 42-53 MHz						
Description	CONDITIONS	UNITS	SPECIFICATION				NOTES
Housing passband		MHz	5 to 1000				
Input current capacity	Any port, worst case	Amperes	15				
Frequency range		MHz	5 - 10	11 - 600	600 - 750	751 - 870	
Hum modulation	Time domain @ rated current above	-dBc	55	65	60	55	
Return loss	Any port, worst case	dB	17.0				
Test Points							
Test point type	Directional coupler	N / A					
Test point level(s)		-dB	20.0				Fwd & rev
Test point accuracy	Forward TP	±dB	0.5				
Frequency range		MHz	5 to 7	7 to 42			
Test point accuracy	Reverse TP	±dB	0.75	0.5			
Test point accuracy	Reverse injection	±dB	0.75	0.5			
Station Gain							
Station passband		MHz	54 to 870				
Station flatness - feeder out	Normalized w / 0 dB slope	±dB	0.75				
Gain feeder (Type 6A & 6T)	+0.5/-0 @ 870 MHz	dB	40.0				Temperature stabilized
Gain feeder (Type 6M)	+0.5/-0 @ 870 MHz	dB	43.0				Temperature stabilized
Gain control type		N / A	Plug-in pads				
Gain control steps	Pad value steps	dB	0.5				
Station Slope							
Operational slope	@ 54 / 550 / 870 MHz	dB	0 / 9.0 / 14.7				
Slope control type	Cable equalizers	N / A	Plug-in EQ's				
Slope control range	Includes cable equivalent	dB	-21.0 to +21.0				
Slope control steps	Equalizer value steps	dB	1.5 cable steps				Approx 1.1 dB slope steps
Station Group Delay							
Group delay	Channel 2 (Std)	nSec / 3.58 MHz	30				Typical 25
Group delay	Channel 3	nSec / 3.58 MHz	16				
Group delay	Channel 4	nSec / 3.58 MHz	10				
Group delay	Channel 5 & >	nSec / 3.58 MHz	3				
AGC							
Type		N / A	Single channel pilot AGC				
Range		dB	8.0				System compensation input change -3/+5 @ 870 MHz
Accuracy		±dB	0.5				
Nominal loss		dB	5.5				Loss @ room temp
Center frequency bandwidth		Fc +/- kHz	150				
550 MHz Analog Channel Loading, 79 Channels +320 MHz Digital Channel Loading, 256 QAM at -6 dBc relative to its associated visual carrier							
Station Output Levels							
Feeder out Port 2, 3, & 4	@ 54 / 550 / 870 MHz	dBmV	36.3 / 45.2 / 51.0				
Station Noise Figure							
Noise figure (w /1 dB for input EQ loss)	Typical @ 54 MHz	dB	7.7				
Noise figure (w /1 dB for input EQ loss)	Typical @ 550 MHz	dB	6.3				
Noise figure (w /1 dB for input EQ loss)	Typical @ 870 MHz	dB	6.9				
Station Distortions			Worst Case	Average			
Composite Triple Beat (CTB)		-dBc	69.0	71.0			
Cross Modulation (XMOD)		-dBc	58.0	60.0			
Composite Second Order (CSO-)	(Vc +0.75 & -1.25 MHz)	-dBc	69.0	71.0			
Composite Second Order (CSO+)	(Vc +1.25 MHz)	-dBc	67.0	69.0			
Carrier-to-Intermodulation Noise (CIN)		-dBc	67.0	69.0			

ACI Communications, Inc.			High Performance Bridger Amplifier, SDBT 870 MHz (Type 6) 3 Output Feeder			
REVERSE SPECTRUM:						
Reverse - Channel Loading						
		Typically 23 each, 1.5 MHz wide QPSK channels.				
Reverse - General		CONDITIONS	UNITS	SPECIFICATION		NOTES
	Station passband		MHz	5 to 42		
	Station flatness	Normalized w / 0 dB slope	±dB	0.5		
Reverse - Station Gain						
	Gain	Minimum @ 40 MHz	dB	18.0		Temperature stabilized
	Gain control type		N / A	Plug-in pads		
	Gain control range		dB	12.0		
	Gain control steps	Pad value steps	dB	0.5		
Reverse - Station Slope						
	Slope control type	Cable equalizers	N / A	Plug-in EQs		
	Slope control range		dB	0 to 12.0		
	Slope control steps	Equalizer value steps	dB	1.5 (Cable steps)		Approx 1.1 dB slope steps
Reverse - Station Output Levels						
	@ Forward input port		dBmV	35.0		
Reverse - Noise Figure						
	Station noise figure (w/EQ)	Across the bandwidth	dB	13.0		
Reverse - Station Distortions						
	Composite Second Order (CSO)	6 channel loading	-dBc	82.0		
	Composite Triple Beat (CTB)	6 channel loading	-dBc	90.0		
	Cross Modulation (XMOD)	6 channel loading	-dBc	80.0		
Reverse - Station Group Delay						
	Group delay	5 MHz	nSec / 1.5 MHz	36		
	Group delay	7 MHz	nSec / 1.5 MHz	16		
	Group delay	10 MHz	nSec / 1.5 MHz	4		
	Group delay	35 MHz	nSec / 1.5 MHz	8		
	Group delay	38.5 MHz	nSec / 1.5 MHz	25		
Power Requirements:						
	Station configuration	Includes reverse	N / A	AGC	Thermal	Manual
	Power Requirements	Worst case	W	47.1	45.4	44.8
AC Voltage						
	Input ranges		VAC	40 to 90		
Current Draw (with AGC)						
	@ 40 VAC	Maximum	A	1.35		
	@ 50 VAC	Maximum	A	1.14		
	@ 60 VAC	Maximum	A	0.99		
	@ 70 VAC	Maximum	A	0.92		
	@ 80 VAC	Maximum	A	0.82		
	@ 90 VAC	Maximum	A	0.76		
Environmental						
	Operating temperature		°F (°C)	-40 to +140 (-40 to +60)		
Physical						
	Dimensions (H X W X D)		In, (cm)	6.75 X 14.25 X 9.00 (17.1 X 36.2 X 22.9)		
	Weight		lbs. (kg)	16.0 (7.26)		

Revision date: 9/23/2008

SDLA (Type 3A, 3T, & 3M Dual) 870 MHz Amplifier Block Diagram



Note:
1. Forward gain stated at 870 MHz with AGC. Reverse gain stated at 40 MHz.

ACI Communications, Inc.			Dual Output Line Extender, SDLA 870 MHz (Type 3 Dual) 2 Output Line Extender				
STATION PARAMETERS:	870 MHz 42-53 MHz Split						
Description	CONDITIONS	UNITS	SPECIFICATION				NOTES
Housing passband		MHz	5 to 1000				
Input current capacity	Any port, worst case	Amperes	15				
Frequency range		MHz	5 - 10	11 - 600	600 - 750	751 - 870	
Hum modulation	Time domain @ rated current above	-dBc	55	65	60	55	
Return loss	Any port, worst case	dB	17.0				
Test Points							
Test point type	Directional coupler	N / A					
Test point level(s)		-dB	20.0				Fwd & Rev
Test point accuracy	Forward TP	±dB	0.5				
Frequency range		MHz	5 to 7		7 to 42		
Test point accuracy	Reverse TP	±dB	0.75		0.5		
Test point accuracy	Reverse Injection	±dB	0.75		0.5		
Station Gain							
Station passband		MHz	54 to 870				
Station flatness - feeder out	Normalized w/0 dB slope	±dB	0.5				
Gain (Type 3A & 3T Dual)	+0.5/-0 @ 870 MHz	dB	31.0				Temperature stabilized
Gain (Type 3M Dual)	+0.5/-0 @ 870 MHz	dB	36.0				Temperature stabilized
Gain control type		N / A	Plug-in pads				
Gain control steps	Pad value steps	dB	0.5				
Station Slope							
Operational slope	@ 54 / 550 / 870 MHz	dB	0 / 9.0 / 14.7				
Slope control type	Cable equalizers	N / A	Plug-in EQ's				
Slope control range	Includes cable equivalent	dB	-21.0 to +21.0				
Slope control steps	Equalizer value steps	dB	1.5 cable steps				Approx 1.1 dB slope steps
Station Group Delay							
Group delay	Channel 2 (Std)	nSec / 3.58 MHz	30				Typical 25
Group delay	Channel 3	nSec / 3.58 MHz	16				
Group delay	Channel 4	nSec / 3.58 MHz	10				
Group delay	Channel 5 & >	nSec / 3.58 MHz	3				
AGC							
Type		N / A	Single channel pilot AGC				
Range		dB	8.0				System compensation input change -3/+5 @ 870 MHz
Accuracy		±dB	0.5				
Nominal loss		dB	5.5				Loss @ room temp
Center frequency bandwidth		Fc +/- kHz	150				

ACI Communications, Inc.®

ACI Communications, Inc.			Dual Output Line Extender, SDLA 870 MHz (Type 3 Dual) 2 Output Line Extender		
550 MHz Analog Channel Loading, 79 Channels +320 MHz Digital Channel Loading, 56 QAM, at -6 dBc relative to its associated visual carrier					
Station Output Levels					
Feeder out Port 2 & 4	@ 54 / 550 / 870 MHz	dBmV	36.3 / 45.3 / 51.0		
Station Noise Figure					
Noise figure (w/1 dB for Input EQ Loss)	Typical @ 54 MHz	dB	9.1		
Noise figure (w/1 dB for Input EQ Loss)	Typical @ 550 MHz	dB	8.2		
Noise figure (w/1 dB for Input EQ Loss)	Typical @ 870 MHz	dB	8.0		
Station Distortions			Worst Case	Average	
Composite Triple Beat (CTB)		-dBc	64.0	66.0	
Cross Modulation (XMOD)		-dBc	55.0	57.0	
Composite Second Order (CSO-)	(Vc +0.75 & -1.25 MHz)	-dBc	62.0	69.0	
Composite Second Order (CSO+)	(Vc +1.25 MHz)	-dBc	66.0	73.0	
Carrier-to-Intermodulation Noise (CIN)		-dBc	62.0	64.0	
650 MHz Analog Channel Loading, 95 Channels +220 MHz Digital Channel Loading 256 QAM, at -6 dBc relative to its associated visual carrier					
Station Output Levels					
Feeder out Port 2 & 4	@ 54 / 650 / 870 MHz	dBmV	36.3 / 47.1 / 51.0		
Station Noise Figure					
Noise figure (w/1 dB for Input EQ Loss)	Typical @ 54 MHz	dB	9.2		
Noise figure (w/1 dB for Input EQ Loss)	Typical @ 650 MHz	dB	8.2		
Noise figure (w/1 dB for Input EQ Loss)	Typical @ 870 MHz	dB	8.0		
Station Distortions			Worst Case	Average	
Composite Triple Beat (CTB)		-dBc	60.0	62.0	
Cross Modulation (XMOD)		-dBc	50.0	53.0	
Composite Second Order (CSO-)	(Vc +0.75 & -1.25 MHz)	-dBc	57.0	65.0	
Composite Second Order (CSO+)	(Vc +1.25 MHz)	-dBc	62.0	69.0	
Carrier-to-Intermodulation Noise (CIN)		-dBc	58.0	60.0	
750 MHz Analog Channel Loading, 110 Channels +120 MHz Digital Channel Loading 256 QAM, at -6 dBc relative to its associated visual carrier					
Station Output Levels					
Feeder out Port 2 & 4	@ 54 / 750 / 870 MHz	dBmV	36.3 / 48.8 / 51.0		
Station Noise Figure					
Noise figure (w/1 dB for Input EQ Loss)	Typical @ 54 MHz	dB	9.2		
Noise figure (w/1 dB for Input EQ Loss)	Typical @ 750 MHz	dB	8.1		
Noise figure (w/1 dB for Input EQ Loss)	Typical @ 870 MHz	dB	8.0		
Station Distortions			Worst Case	Average	
Composite Triple Beat (CTB)		-dBc	54.0	57.0	
Cross Modulation (XMOD)		-dBc	45.0	49.0	
Composite Second Order (CSO-)	(Vc +0.75 & -1.25 MHz)	-dBc	54.0	60.0	
Composite Second Order (CSO+)	(Vc +1.25 MHz)	-dBc	59.0	62.0	
Carrier-to-Intermodulation Noise (CIN)		-dBc	52.0	55.0	

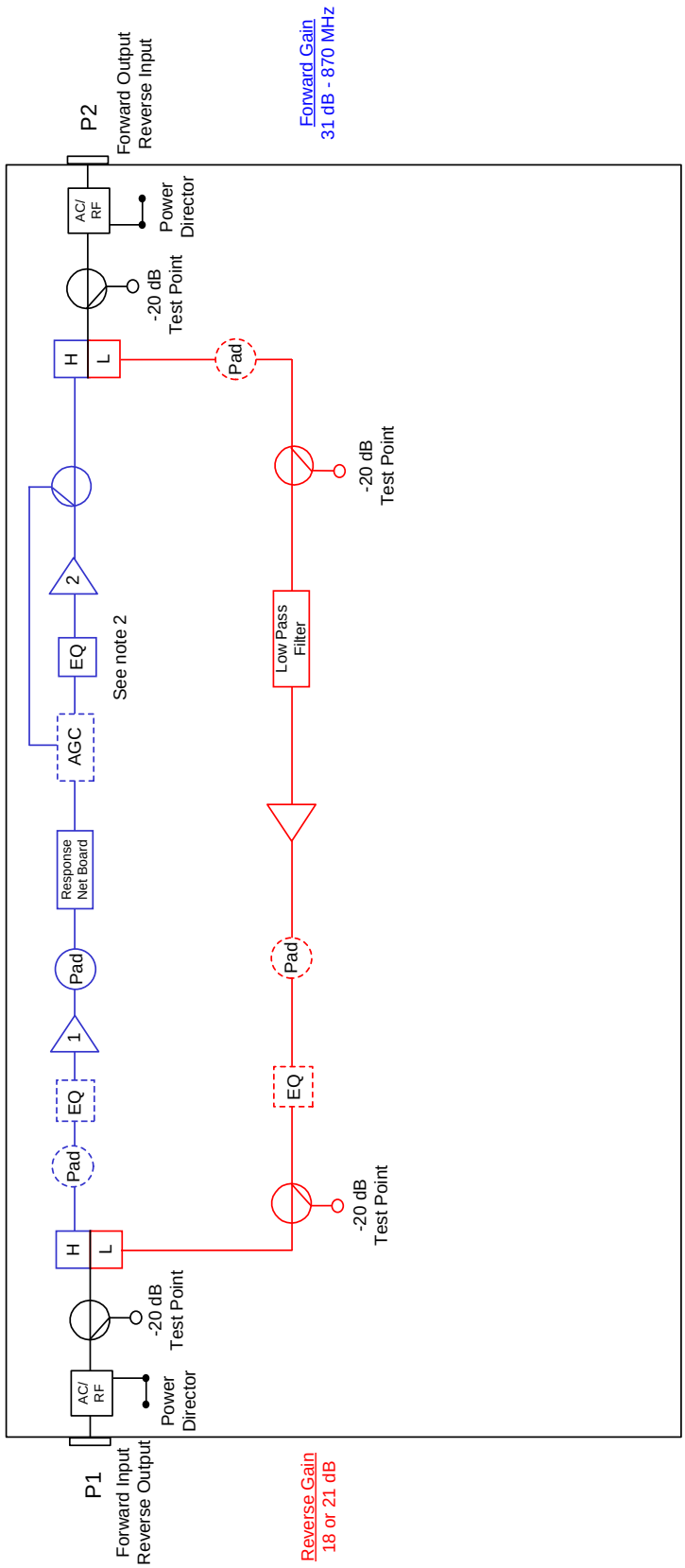
Revision date: 9/23/2008

ACI Communications, Inc.®

ACI Communications, Inc.			Dual Output Line Extender, SDLA 870 MHz (Type 3 Dual) 2 Output Line Extender			
REVERSE SPECTRUM:						
Reverse - Channel Loading	CONDITIONS	UNITS	SPECIFICATION			NOTES
	Typically 23 each, 1.5 MHz wide QPSK channels.					
Reverse - General						
Station passband		MHz	5 to 42			
Station flatness	Normalized w / 0 dB slope	±dB	0.5			
Reverse - Station Gain						
Gain	Minimum @ 40MHz	dB	18.0			Temperature stabilized
Gain control type		N / A	Plug-in pads			
Gain control range		dB	12.0			
Gain control steps	Pad value steps	dB	0.5			
Reverse - Station Slope						
Slope control type	Cable equalizers	N / A	Plug-in EQs			
Slope control range		dB	0 to 12.0			
Slope control steps	Equalizer value steps	dB	1.5 cable steps			
Reverse - Station Output Levels						
@ Forward input port		dBmV	35.0			
Reverse - Noise Figure						
Station noise figure (w/EQ)		dB	13.0			
Reverse - Station Distortions						
Composite Second Order (CSO)	6 NTSC channel loading	-dBc	82.0			
Composite Triple Beat (CTB)	6 NTSC channel loading	-dBc	90.0			
Cross Modulation (XMOD)	6 NTSC channel loading	-dBc	80.0			
Reverse - Station Group Delay						
Group delay	5 MHz	nSec / 1.5 MHz	36			
Group delay	7 MHz	nSec / 1.5 MHz	16			
Group delay	10 MHz	nSec / 1.5 MHz	4			
Group delay	35 MHz	nSec / 1.5 MHz	8			
Group delay	38.5 MHz	nSec / 1.5 MHz	25			
Power Requirements:						
Station configuration	Includes reverse	N / A	AGC	Thermal	Manual	
Power Requirements	Worst case	W	34.2	32.8	32.3	
AC Voltage						
Input ranges		VAC	40 to 90			
Current Draw (with AGC)						
@ 40 VAC	Maximum	A	0.99			
@ 50 VAC	Maximum	A	0.85			
@ 60 VAC	Maximum	A	0.77			
@ 70 VAC	Maximum	A	0.71			
@ 80 VAC	Maximum	A	0.64			
@ 90 VAC	Maximum	A	0.60			
Environmental						
Operating temperature		°F (°C)	-40 to +140 (-40 to +60)			
Physical						
Dimensions (H X W X D)		In, (cm)	6.75 X 14.25 X 9.00 (17.1 X 36.2 X 22.9)			
Weight		lbs. (kg)	14.5 (6.58)			

Revision date: 9/23/2008

SDLE & ALX (Type 3A, 3T, & 3M) 870 MHz Amplifier Block Diagram



Note:
1. Forward gain stated at 870 MHz with AGC. Reverse gain stated at 40 MHz.
2. The interstage EQ is not present in the ALX amplifiers.

ACI Communications, Inc.®

ACI Communications, Inc.,			Line Extender, SDLE & ALX 870 MHz (Type 3) 1 Output Line Extender				
STATION PARAMETERS:	870 MHz 42-53 MHz Split						
Description	CONDITIONS	UNITS	SPECIFICATION				NOTES
Housing passband		MHz	5 to 1,000				
Input current capacity	Any port, worst case	Amperes	15				
Frequency range		MHz	5 - 10	11 - 600	600 - 750	751 - 870	
Hum modulation	Time domain @ rated current above	-dBc	55	65	60	55	
Return loss	Any port, worst case	dB	17.0				
Test Points							
Test point type	Directional coupler	N / A					
Test point level(s)		-dB	20.0				Fwd & Rev
Test point accuracy	Forward TP	±dB	0.5				
Frequency range		MHz	5 to 7		7 to 42		
Test point accuracy	Reverse TP	±dB	0.75		0.5		
Test point accuracy	Reverse injection	±dB	0.75		0.5		
Station Gain							
Station passband		MHz	54 to 870				
Station flatness - feeder out	Normalized w / 0 dB slope	±dB	0.5				
Gain (Type 3A, 3T)	+0.5/-0 @ 870 MHz	dB	31.0				
Gain (Type 3M)	+0.5/-0 @ 870 MHz	dB	36.0				
Gain control type		N / A	Plug-in pads				
Gain control steps	Pad value steps	dB	0.5				
Station Slope							
Operational slope	@ 54 / 550 / 870 MHz	dB	0 / 9.0 / 14.7				
Slope control type	Cable equalizers	N / A	Plug-in EQ's				
Slope control range	Includes cable equivalent	dB	-21.0 to +21.0				
Slope control steps	Equalizer value steps	dB	1.5				Approx 1.1 dB slope steps
Station Group Delay							
Group delay	Channel 2 (Std)	nSec / 3.58 MHz	30				Typical 25
Group delay	Channel 3	nSec / 3.58 MHz	16				
Group delay	Channel 4	nSec / 3.58 MHz	10				
Group delay	Channel 5 & >	nSec / 3.58 MHz	3				
AGC							
Type		N / A	Single channel pilot AGC				
Range		dB	8.0				System compensation input change -3/+5 @ 870 MHz
Accuracy		±dB	0.5				
Nominal loss		dB	5.5				Loss @ room temp
Center frequency bandwidth		Fc +/- kHz	150				

ACI Communications, Inc						Line Extender, SDLE & ALX 870 MHz (Type 3) 1 Output Line Extender
550 MHz Analog Channel Loading, 79 Channels +320 MHz Digital Channel Loading 256 QAM, at -6 dBc relative to its associated visual carrier						
Station Output Levels						
Feeder out Port 2	@ 54 / 550 / 870 MHz	dBmV	36.3 / 45.3 / 51.0			
Station Noise Figure						
Noise figure (w / 1 dB for input EQ loss)	Typical @ 54 MHz	dB	8.5			
Noise figure (w / 1 dB for input EQ loss)	Typical @ 550 MHz	dB	8.2			
Noise figure (w / 1 dB for input EQ loss)	Typical @ 870 MHz	dB	9.5			
Station Distortions			Worst Case	Average		
Composite Triple Beat (CTB)		-dBc	66.0	68.0		
Cross Modulation (XMOD)		-dBc	58.0	61.0		
Composite Second Order (CSO-)	(Vc +0.75 & -1.25 MHz)	-dBc	62.0	67.0		
Composite Second Order (CSO+)	(Vc +1.25 MHz)	-dBc	66.0	70.0		
Composite Intermodulation Noise (CIN)		-dBc	64.0	66.0		
650 MHz Analog Channel Loading, 95 Channels +220 MHz Digital Channel Loading 256 QAM, at -6 dBc relative to its associated visual carrier						
Station Output Levels						
Feeder out Port 2	@ 54 / 650 / 870 MHz	dBmV	36.3 / 47.1 / 51.0			
Station Noise Figure						
Noise figure (w / 1 dB for input EQ loss)	Typical @ 54 MHz	dB	8.5			
Noise figure (w / 1 dB for input EQ loss)	Typical @ 650 MHz	dB	8.6			
Noise figure (w / 1 dB for input EQ loss)	Typical @ 870 MHz	dB	9.5			
Station Distortions			Worst Case	Average		
Composite Triple Beat (CTB)		-dBc	62.0	64.0		
Cross Modulation (XMOD)		-dBc	53.0	56.0		
Composite Second Order (CSO-)	(Vc +0.75 & -1.25 MHz)	-dBc	57.0	63.0		
Composite Second Order (CSO+)	(Vc +1.25 MHz)	-dBc	62.0	67.0		
Composite Intermodulation Noise (CIN)		-dBc	60.0	62.0		
750 MHz Analog Channel Loading, 110 Channels +120 MHz Digital Channel Loading 256 QAM, at -6 dBc relative to its associated visual carrier						
Station Output Levels						
Feeder out Port 2	@ 54 / 750 / 870 MHz	dBmV	36.3 / 48.8 / 51.0			
Station Noise Figure						
Noise figure (w / 1 dB for input EQ loss)	Typical @ 54 MHz	dB	8.5			
Noise figure (w / 1 dB for input EQ loss)	Typical @ 750 MHz	dB	8.5			
Noise figure (w / 1 dB for input EQ loss)	Typical @ 870 MHz	dB	9.5			
Station Distortions			Worst Case	Average		
Composite Triple Beat (CTB)		-dBc	55.0	59.0		
Cross Modulation (XMOD)		-dBc	47.0	52.0		
Composite Second Order (CSO-)	(Vc +0.75 & -1.25 MHz)	-dBc	55.0	62.0		
Composite Second Order (CSO+)	(Vc +1.25 MHz)	-dBc	60.0	65.0		
Composite Intermodulation Noise (CIN)		-dBc	53.0	57.0		

ACI Communications, Inc.							Line Extender, SDLE & ALX 870 MHz (Type 3) Output Line Extender
REVERSE SPECTRUM:							
Reverse - Channel Loading	CONDITIONS	UNITS	SPECIFICATION			NOTES
	Typically 23 each, 1.5 MHz wide QPSK channels.					
Reverse - General						
Station passband		MHz	5 to 42			
Station flatness	Normalized w / 0 dB slope	±dB	0.5			
Reverse - Station Gain						
Gain	Minimum @ 40 MHz	dB	18.0 or 21.0			
Gain control type		N / A	Plug-in pads			
Gain control range		dB	12.0			
Gain control steps	Pad value steps	dB	0.5			
Reverse - Station Slope						
Slope control type	Cable equalizers	N / A	Plug-in EQ's			
Slope control range		dB	0 to 12.0			
Slope control steps	Equalizer value steps	dB	1.5 cable steps			
Reverse - Station Output Levels						
@ Forward input port		dBmV	35.0			
Reverse - Noise Figure						
Station noise figure (w/EQ)		dB	8.5			
Reverse - Station Distortions						
Composite Second Order (CSO)	6 NTSC channel loading	-dBc	82.0			
Composite Triple Beat (CTB)	6 NTSC channel loading	-dBc	90.0			
Cross Modulation (XMOD)	6 NTSC channel loading	-dBc	80.0			
Reverse - Station Group Delay						
Group delay	5 MHz	nSec / 1.5 MHz	36			
Group delay	7 MHz	nSec / 1.5 MHz	16			
Group delay	10 MHz	nSec / 1.5 MHz	4			
Group delay	35 MHz	nSec / 1.5 MHz	8			
Group delay	38.5 MHz	nSec / 1.5 MHz	25			
Power Requirements:						
Station configuration	Includes reverse	N / A	AGC	Thermal	Manual	
Power Requirements	Worst case	W	27.2	25.8	24.7	
AC Voltage						
Input ranges		VAC	40 to 90			
Current Draw (with AGC)						
@ 40 VAC	Maximum	A	0.68			
@ 50 VAC	Maximum	A	0.54			
@ 60 VAC	Maximum	A	0.45			
@ 70 VAC	Maximum	A	0.39			
@ 80 VAC	Maximum	A	0.34			
@ 90 VAC	Maximum	A	0.30			
Environmental						
Operating temperature		°F (°C)	-40 to +140 (-40 to +60)			
Physical (SDLE)						
Dimensions (H X W X D)		In, (cm)	6.75 X 14.25 X 9.00 (17.1 X 36.2 X 22.9)			
Weight		lbs. (kg)	14.5 (6.58)			
Physical (ALX)						
Dimensions (H X W X D)		In, (cm)	4.00 X 14.25 X 9.00 (10.2 X 36.2 X 22.9)			
Weight		lbs. (kg)	11.0 (4.99)			

Revision date: 9/23/2008

ACI Communications, Inc.®

SDA & ALX 15 Amp Product Configuration Worksheet

Customer: _____

Created By: _____ Order Date: _____

ORDERING MATRIX

May 28, 2011

Position	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
PART NUMBER															

1 [ ] STATION TYPE

A = ALX 1 Output Low Profile LE
B = SDAB 2 Output Feeder
C = SDLT 1 Output Trunk LE
D = SDLA 2 Output LE
F = SDAF 2 or 3 Output Feeder
J = SDBT 3 Equal Output Feeder
L = SDLE 1 Output LE
T = SDAT 3 Output Trunk

2 [ ] BANDWIDTH FREQUENCY

7 = 750 MHz Upper Frequency
8 = 870 MHz Upper Frequency
9 = 900 MHz Upper Frequency
1 = 1002 MHz Upper Frequency

3,4 [ ][ ] STATION GAIN (Forward)- For 0.5 dB gain values, use the first two digits listed in the part number

Station Type	TYPE 1				TYPE 2				TYPE 3				TYPE 3			
Amplifier Model	SDAT				SDAB				SDLE				ALX			
Frequency	750	870	900	1002	750	870	900	1002	750	870	900	1002	750	870	900	1002
Max gain with AGC/ Thermal	28	31	31	33	38	NA	42	43	29	31	32	35.5	29	31	32	NA
Max gain w/AGC bypass	33	34	34	38	43	NA	45	48	34	36	36	40.5	34	36	36	NA

Station Type	TYPE 2 TRI				TYPE 3 DUAL				TYPE 4				TYPE 6			
Amplifier Model	SDAF				SDLA				SDLT				SDBT			
Frequency	750	870	900	1002	750	870	900	1002	750	870	900	1002	750	870	900	1002
Max gain with AGC/ Thermal	37	40	NA	43	28	31	32	35.5	29	31	NA	33	NA	40	NA	NA
Max gain w/AGC bypass	42	43	NA	46	33	36	36	40.5	34	36	NA	38	NA	43	NA	NA

5 [ ] CONTROL TYPE

C = Composite AGC (750 MHz only)
P = Single Channel Pilot (recommended)
T = Thermal Bode
M = Manual (AGC Bypass)

6 [ ] CONTROL FREQUENCY

0 = Thermal Bode
1 = AGC Bypass

A = Channel 52	391.25MHz	SC or SP AGC
B = Channel 54	403.25 MHz	SCAGC only
C = Channel 58	427.25 MHz	SPAGC only
D = Channel 59	433.25 MHz	SCAGC only
E = Channel 60	439.25 MHz	SC or SP AGC
F = Channel 61	445.25 MHz	SPAGC only
G = Channel 62	451.25 MHz	SC or SP AGC
H = Channel 70	499.25 MHz	SC or SP AGC
J = Channel 72	511.25 MHz	SPAGC only
M = Channel 70HRC	498.025 MHz	SPAGC only
N = Channel 58HRC	426.021 MHz	SPAGC only

7 [B] CURRENT PASSING CAPACITY 15A (Continuous on all ports)

8 [ ] STATION SLOPE

	550	650	750	870	900	1002
A=	8.5	10.2	11.9	14.0	14.5	NA
C=	7.6	9.1	10.7	12.5	NA	NA
D=	8.9	10.7	12.5	14.7	NA	NA
E=	9.0	10.8	12.6	14.8	15.3	17.2
F=	7.9	9.4	11.0	12.9	13.4	15.0
T=	7.3	8.8	10.3	12.0	12.5	14.0

9 [ ] HOUSING OPTIONS

0 = No housing or power pack
1 = Module upgrade kit with power supply and seizure screws
E = SDA - Standard with TP
F = SDA - Chromate with TP
B = SDA - Chromate without TP
G = ALX - Standard low profile line extender with TP
H = ALX - Chromate low profile line extender with TP
K = ALX - Chromate low profile line extender without TP

10 [ ] DIPLEX FREQUENCY SPLIT

4 =42 / 53 5 =55 / 70 (870 MHz Only) 6 =65 / 85 (870 MHz Only) 8 =85 / 105 (1002 MHz Only)

11 [ ] STATION GAIN (Reverse)

0 = None
1 = Passive
4 = 18 dB min (SDA: T, B, F, LA, BT)
H = 18 dB min (SDLE, LT & ALX only)
R = 21 dB min (SDLE, LT & ALX only)

12 [ ] SURGE PROTECTION

A = Plug-in sidactor (Included in SDA 1002 MHz and all of the ALX amplifiers & recommended for SDA 750, 870 & 900 MHz units)
C = Triac (Included in all SDA power supplies), The sidactor is recommend to increase surge protection level of the SDA units

13,14 [X][X] TEST SPECS (Determined by ACI engineering)

15 [X] SPECIAL/CUSTOMER: LABELS, FUNCTIONS, (Determined by Product Management)

0, 1 = No special instructions
T or R = Trunk line extender for ALX
2 = Customer P/N in description
M = Status monitoring pick-offs installed
3 = SDAF w/3 dB splitter installed
C = Module cover with thumb screws (SDA 1G only)

Generic Order Form: Not all configurations are available

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RevB 5-28-2011 **ACI Communications, Inc.**
Printed in U.S.A.