

*ACI 1200
Fiber Deep Node*



The ACION 1200 is a cost-effective compact high output node with AGC functionality that addresses the needs of today's passive fiber deep applications. The Automatic Gain Controller (AGC) compensates for variations in the optical input power to provide a constant and stable RF output. The LED display shows the optical input power that greatly aids in the setup and diagnostics of the network. This node is field configurable to operate as a single or dual output device.

Features

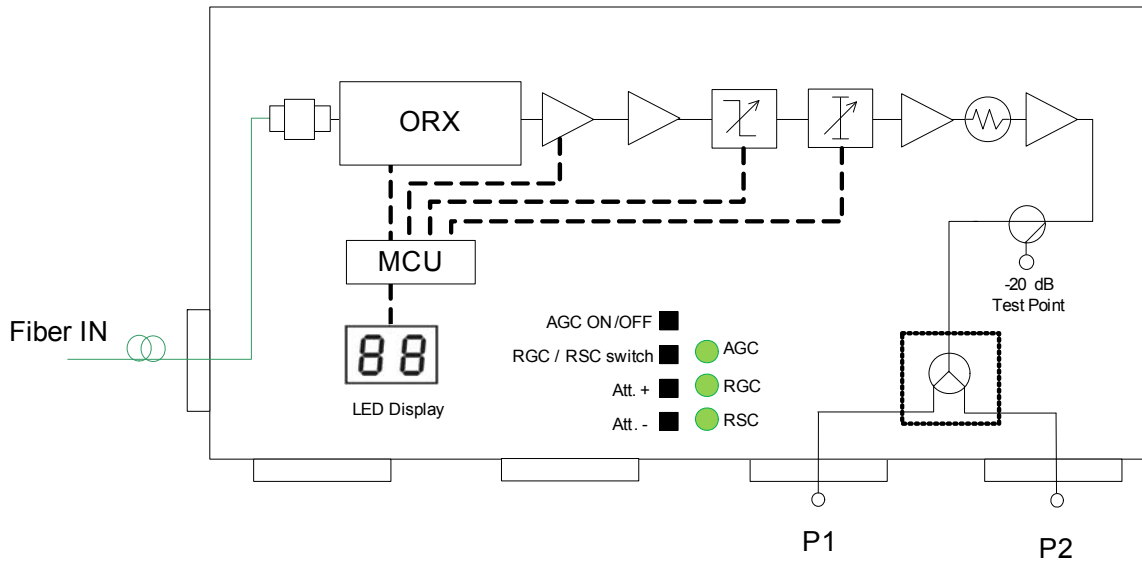
- 862 MHz Fiber deep node
- Cost-effective
- High output level (118 dB μ V for 1 output or 115 dB μ V for 2 outputs)
- Gain and slope control range of 0 to 14 dB
- AGC function based on optical input power
- Integrated LED display for optical input power
- Wide optical input range of 0 to -7 dBm

Specifications

ACI Communications, Inc.		ACION 1200 Fiber Deep Node One Driven Output or Two Split Outputs	
Description	Unit	Value	Conditions / Comments
RF Parameter			
Bandwidth	MHz	47 to 862	
Flatness	dB	± 1	
Return Loss	-dB	>18	
CTB	-dBc	>60	(42 ch. CENELEC slope 9 dB interstage equalizer) @ 115 dBuV
CSO	-dBc	>58	(42 ch. CENELEC 9 dB interstage equalizer) @ 115 dBuV
CNR	dB	46	1550 nm, -7 dBm, 4.5% OMI/ch.
Gain limited output level	dBuV	118 ± 1 (one port) 115 ± 1 (two ports)	0 dBm, 4.5% OMI/ch.
Interstage slope control	dB	0 to 14	1 dB step
Interstage gain control	dB	0 to 14	1 dB step
Test point- directional	-dB	20 ± 0.75	
Optical Parameter			
Wavelength	nm	1100 to 1600	
Optical input level (AGC range)	dBm	-7 to 0	
Equivalent input noise current	pA/√Hz	5.5	
Optical power indicator (digital)	dBm	-9.9 to 0	
Optical connector		SC/APC	SC/UPC, FC/APC, FC/UPC optional
Electrical Parameter			
Powering		100 to 240 VAC 50/60 Hz	Line Power
Peak input voltage	VAC	260 280	Functional No damage
Efficiency	%	>78	Typically @ 230 V, 24 V/0.75 A, 8 V/0 A
Input current protection		Slow blow fuse	"catastrophic failure" protection
Power consumption	W	<18	Min. 9 W
Short circuit protection		continuous	With auto restart and w/o any damage/degradation
Overload protection, max load	%	125	Typically
Hold up time	ms	>15	@ 100 V under all specified conditions
General			
Operating temperature	°C	-40 to +60	Cold start @ -40 °C
Storage temperature	°C	-40 to +85	
Module dimension L x W x H	mm	211.0 X 164.5 X 86	
Protection Class		IP43	
Module weight	Kg / lbs	2.3 / 5.1	
MTBF	hr	100,000	Full load, 40 °C at base plate
Surge, Input voltage protection		4 Kv / 2Ω	

Confidential information contained in this document is subject to change without notice. Revision date: 1/28/2009

Block Diagram



ACION 1200 Configuration Sheet

Customer: _____

Created By: _____ Order Date: _____

ORDERING MATRIX

June 11, 2008

Position	1	2	3	4	5	6	7	8	9	10	11	12	13
PART NUMBER	3	1	2	2		1	0	0		1	0		0

4 Model
2 = ACION 1200

5 RF Port
1 = One (1) port
2 = Two (2) ports

6 Optical Receiver
1 = One (1) ORX

9 Optical Connector
1 = SC/APC (STD)
2 = SC/UPC
3 = FC/APC
4 = FC/UPC

10 HOUSING TYPE
1 = Standard

12 POWER SUPPLY MAINS CORD
0 = NONE
1 = North America
2 = International/Europe
3 = Japan
4 = Australia
5 = Argentina
X = Custom (Contact Product Management)

13 CUSTOM
0 = ACI (STD)

NOTES:

ACI Communications, Inc.
23307 - 66th Avenue South - Kent, WA - 98032
Phone: (253) 854-9802 - Fax: (253) 813-1001 - www.acicomms.com



ACI Communications, Inc. reserves the right to discontinue the manufacture or change specifications without prior notice on any parts illustrated in this data sheet. Current drawings are available upon request.

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