

## FT 5019 1310 nm Forward Transmitter



The FT 5019 is a 19 inch rack mount downstream 1310 nm transmitter.

### Features:

- Standard 1U, 19 inch rack mount
- bandwidth 870 or 1002 MHz
- Optical power 6 dBm to 13 dBm
- Excellent CNR and low distortion performance
- Microprocessor control & monitoring
- AGC/MGC gain control mode
- LCD display on front panel
- RS485 interface for status monitoring
- Narrowcast Input (optional)

## Specifications:

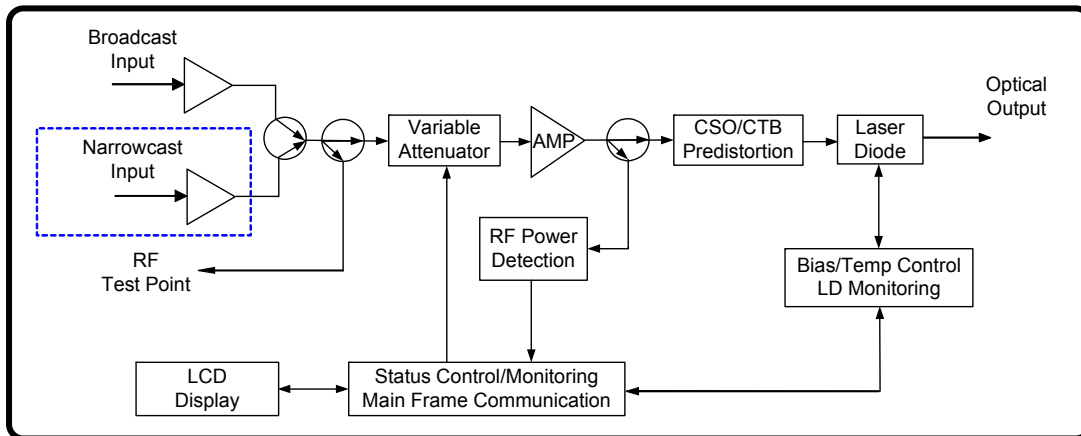
ACI Communications, Inc.			FT5019 1310 nm Forward Transmitter	
Optical Parameters	CONDITIONS	UNIT	SPECIFICATIONS	NOTES
Fiber type			Single mode fiber	
Optical wavelength		nm	1310 ±20	
Output power		dBm	6, 8, 9, 10, 11, 12, 13	
Connector			SC / APC (standard) FC / APC (optional)	
RF Parameters				
RF Bandwidth		MHz	45 - 870 or 45 - 1002	
Broadcast Input	@ 79 NTSC channel loading	dBmV / ch	20 ±5	
Narrowcast Input			-6 dB Digital QAM channel below equivalent analog channel (optional)	
Flatness	@ 45 - 870 MHz	±dB	0.75	
	@ 870 - 1002 MHz	±dB	1.0	
Test point		-dB	20	
Impedance		Ω	75	
Isolation	@ 45 - 870 MHz	dB	>60	
	@ 870 - 1002 MHz	dB	>50	
Return loss	@ 45 - 870 MHz	dB	≥16	
	@ 870 - 1002 MHz	dB	≥14	
Distortion				
CNR		dB	>52	1, 2, & 3
CSO		-dBc	<62	1, 2, & 3
CTB		-dBc	<66	1, 2, & 3
Power and Environmental / Mechanical				
Control interface			RS-485	
Power supply	Max	VAC, Hz, W	90 - 260, 50/60, 40	
Operating temperature		°C	0 to +50	
Storage temperature		°C	-40 to +60	
Humidity	Max	%	85	
Dimensions	W x H x D	mm	350 x 485 x 45	
Weight		Kg	<4.5	
Notes:				
1. SMF (SMF-28 or equivalent) of 12.5 km with passive loss and optical received power is 0 dBm.				
2. 79 NTSC channel, OMI= 3.6% per channel, receiver noise 7pA / √Hz, and optical responsivity ≥0.90 A / W at 1310 nm				
3. Specification are at room temperature (25 °C ±5 °C) for 0 °C and 50 °C, CSO/CTB would be lower by 2 dBc and CNR would be lower by 0.5 dB				

Confidential

Information contained in this document is subject to change without notice.

Revision date: 01/05/2009

## Block Diagram



## Configuration Worksheet

### FT5019 Configuration Sheet

Customer: \_\_\_\_\_

Created By: \_\_\_\_\_ Order Date: \_\_\_\_\_

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ORDERING MATRIX
September 3,2010

FT5019	—	1	2	3	4	5	6	7	8	9
FT5019	—			—			—		—	

1, 2

0	6
0	8
0	9
1	0
1	1
1	2
1	3

Output power

- = 6 dBm
- = 8 dBm
- = 9 dBm
- = 10 dBm
- = 11dBm
- = 12 dBm
- = 13 dBm

4, 5

S	C
F	C

Connector

- = SC/APC (STD)
- = FC/APC

7

Blank
N

= Broadcast Input only

= Broadcast & Narrowcast Inputs

9

Blank
G

= 870 MHz

= 1 GHz (1002 MHz)

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**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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