

## A8KFT3HD-1550 1.2GHz High Density QAM Transmitter

### Overview

The ACION 8000 A8KFT3-1550 is a 1.2GHz QAM optical transmitter (Tx) for HFC or FTTH Applications. The Tx can transmit analog + QAM or all QAM signals over a fiber length up to 30km with 1km increment for fiber length selection. This compact and cost effective Tx module is 1.5RU tall and up to 24 Tx can be installed in the 19-inch high density chassis (A8KMF3).

The A8KFT3HD-1550 advanced design for low power consumption allows 2 Tx to operate in one 3RU slot. The characteristics of this Tx design exhibit excellent CTB and CSO performance with SBS suppression level up to 19 dBm of optical power launch through fiber.

### Features

- CATV Bandwidth up to 1218 MHz
- 1550nm, Standard ITU Ch15 to Ch72, 100GHz Spacing
- Fiber Distance Up to 30km
- Up to 19dBm SBS Suppression
- High Density, 1.5RU
- AGC/MGC Selection
- CW/Video Mode Selection
- OMI Level Adjustments & User Defined AGC Setting
- Hot Swappable
- Remote Control & Monitor Functions via HMS and SNMP
- -20dB Front Panel Testpoint



### Performances

Parameters	Min	Typ	Max	Units
Operating Temperature Range	0	-	50	°C
Operating Bandwidth	54	-	1218	MHz
Optical Power	10	-	12	dBm
SBS Suppression	-	-	19	dBm
CNR (79ch NTSC + Digital to 1218MHz) <sup>(1)</sup>	51	-	-	dB
CSO (79ch NTSC + Digital to 1218MHz) <sup>(1)</sup>	-	-	-65	dBc
CTB (79ch NTSC + Digital to 1218MHz) <sup>(1)</sup>	-	-	-70	dBc
MER	38	-	-	dB
BER (Pre-FEC)	10 <sup>-8</sup>	-	-	-

(1) Rx Opt = 0dBm, Fiber = 0 to 30km, 79ch = 15dBmV/ch, Digital ch = -6dB from Analog

**For more information on this and other products:**

Contact Sales at ACI (253) 854-9802, or visit [www.acicomms.com](http://www.acicomms.com)