ACION 8000 Series

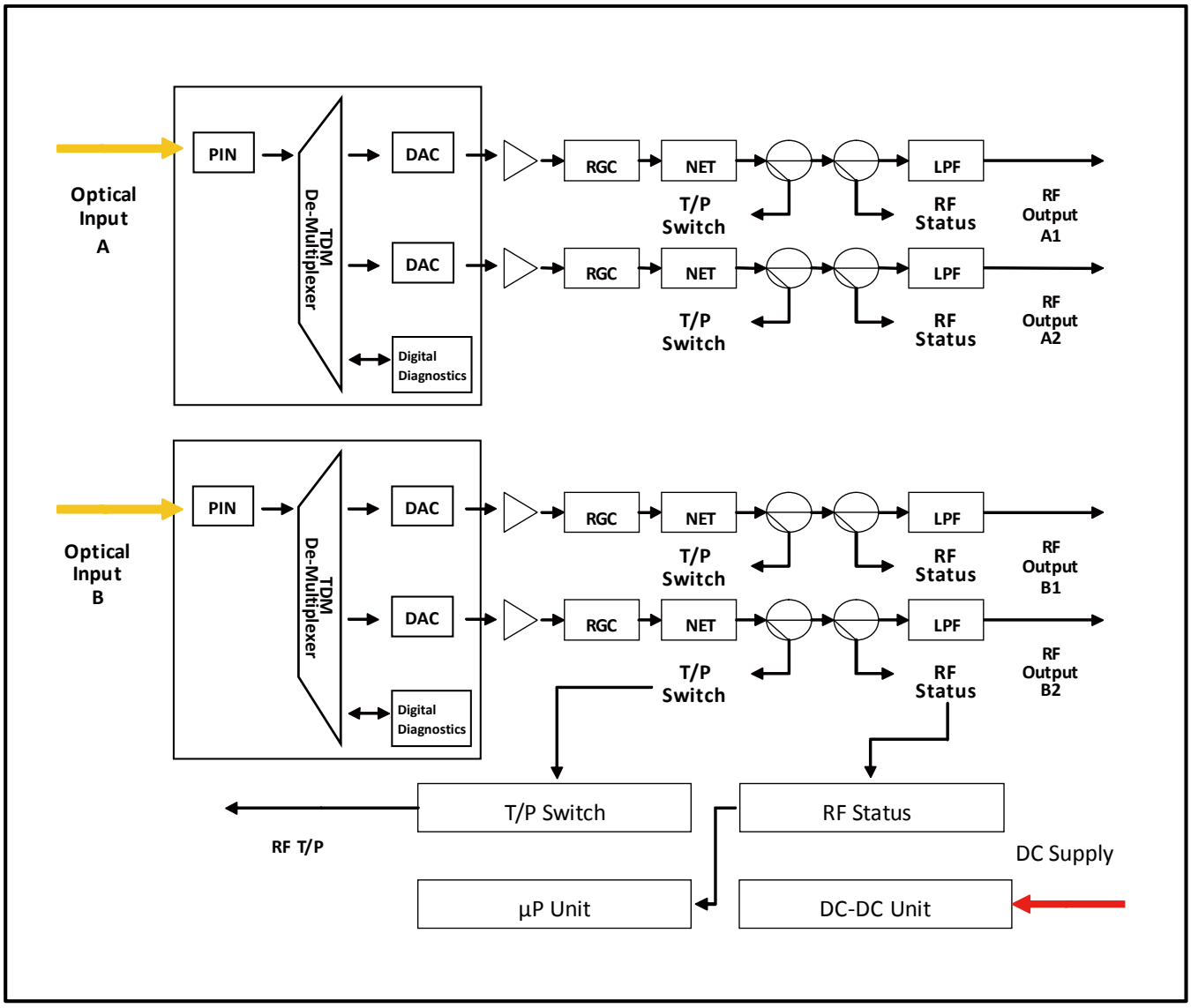
A8KQDR - Quad Digital Return Receiver

A8KQDR – Quad Digital Return Receiver is an integral part of return path system applications. 3RU in height and up to 12 modules can reside in the 19-inch high-density chassis (A8KMF3).

Features

- 1U 19“ rack housing
- Wide optical input range
- 4 Return optical inputs and 4 Return RF outputs (A8KQRR)
- Maximum of 48 returns for Quad receiver modules per chassis
- Wide optical input range
- Front optical inputs and rear RF outputs
- Optical wavelength: 1260 to 1620 nm
- Hot-swappable
- Remote monitor and control function by HMS or SNMP

Block Diagram



Specifications

ACI	ACION 8000 Series A8KQDR Quad Digital Return Receiver			
PARAMETERS	CONDITIONS	UNITS	SPECIFICATION	NOTES
Optical Specification				
Optical receive power		dBm	-18 ~ -5	
Wavelength		nm	1260 to 1620	
RF Specifications				
Impedance		Ω	75	
Return loss	Min.	dB	-16 @ 5 - 45 MHz	
Output level	Min.	dBmV	36	
RF gain adjustment	RGC Mode Range	dB	0 to 20	
Operating bandwidth		MHz	5 to 42	
Flatness	Peak to Valley	dB	± 1.0	Link
Slope		dB	-3	Link
Test point	Directional coupler	dB	-20 ± 0.5	
RF gain		dB	10.5	Note 1
Receiver to receiver isolation	5 to 45 MHz	dB	< -50	
Distortion				
Equivalent noise input	Max.	$Pa/Hz^{0.5}$	7	
Second order distortion	Max.	dBc	-54	Link
Third order distortion	Max.	dBc	-62	Link
Environment				
Module width		slot	1	
Power consumption	Max.	W	15.0	
Operating temperature		˚F(˚C)	32 to 122 (0 to 50)	
Relative humidity	Non-condensing	%	0 to 95	
Optical connector			SC/APC	
Dimensions	D × H × W	Inch. (mm)	16.1 x 5.0 x 1.0 (410 x 127 x 26)	

Note 1: Measured from input of first gain stage to output of module with minimum attenuation.

Ordering Matrix

A8KQDR Configuration Sheet

Customer: _____

Created By: _____ Order Date: _____

ORDERING MATRIX 2016/9/13

	1		2	3	4		5	6	7	8	9
A 8 K		D R	—			—					

1 [ ]

Number of Receiver prots in module
Q = 4 ports (standard)

3~4 [ ][ ]

A/B Switch for redundant or not redundant receivers
00 = Without A/B Switch for Non-redundant receivers

5~6 [ ][ ]

Connector
SC = SC/APC with shutter (standard)
FC = FC/APC
E2 = E2000

7~9 [ ][ ][ ]

Digital Return Receiver Module & RF output
413 = 45MHz, Single PIN Receiver, Dual RF Output (2-fer)
422 = 45MHz, Dual PIN Receiver, Dual RF Output
613 = 65MHz, Single PIN Receiver, Dual RF Output (2-fer)
622 = 65MHz, Dual PIN Receiver, Dual RF Output
811 = 85MHz, Single PIN Receiver, Single RF Output
822 = 85MHz, Dual PIN Receiver, Dual RF Output

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