EYECOM

CR150 — VHF Band Simplex Optical BDA

VHF band simplex optical BDA features:

- Supports VHF band simplex radio operation
- Ultra high selectivity channelized digital module equipped in each channel, best system performance
- Automatic gain control (AGC) in UL and DL
- Built-in USB control port enables convenient field adjustment of BDA output power and gain.
- Remote control and monitoring NMS via fiber
- Outdoor IP65 rated wall mount. Redundant PSU modules.

Model No.	CR150	
Part No.	COBP-A-WM-PR-S	
Frequency Range[*]	Uplink 136~174MHz	Downlink 136~174MHz
Operational Bandwidth	17MHz	17MHz
RF Monitoring Ports	---	-40dBc
System Gain(1 OMU + 1 ORU)	40dB±3dB	40dB±3dB
Gain Adjustment Range	30dB in 1dB Step	30dB in 1dB Step
Pass Band Ripple	≤±2dB	≤±2dB
Max. Compost Output Power	3dBm±1dBm@OMU UL	33dBm±1dBm
In-band IMD(comply with FCC)	≤-13dBm	≤-13dBm
Spurious	≤-36dBm@ 9KHz~1GHz; ≤-30dBm@ 1GHz~12.75GHz	
AGC Range	20dB	20dB
VSWR	<1.5:1	<1.5:1
Noise Figure@ Max. Gain	≤5dB	---
Optical Wavelength	1550nm	1310nm
Optical Output Power	3dBm ±1dBm	----
Max. Optical Path Loss	10dB	10dB
Master and Slave NMS Connection	FSK via optical fiber	
Bulk Delay	<1.5μs	
Input/Output Configuration	Optical combined ; RF DL/UL separated	
Impedance	50Ω	

Alarm Detection	PSU alarm, Uplink LNA failure alarm, Downlink PA alarm, Optical transceiver module alarm, Downlink output over power alarm, Downlink output under power alarm, Door open alarm
Local Alarm Indications	1. LED alarm display 2. Laptop via local USB port
Power Supply	90~265V AC,50~60Hz
Power Consumption	≤130watts
Redundancy	Dual PSU in hot standby mode
MTBF	50,000 Hours
Cooling	Convection
Operating Temperature Range	-20~+55 °C
Operating Humidity	0~95% (non-condensing)
Connector	RF:N-F; Optical: FC/APC
Dimension	500x440x235mm
Weight	≤32kg

Eyecom's policy of continual improvement requires us to reserve the right to change the specifications without notice

Unit comply withEN50121; EN60950; EN303035; EN300394
* Please specify frequency range when ordering