EYEC◉M

EOT Fiber Optical Transceiver Master Units

Eyecom EOT series optical repeater master unit is paired with Eyecom optical BDA slave unit. Optical fiber delivers radio signals to a distance of up to 20km. Eyecom specially designed laser module features low noise figure, high dynamic range and long optic emitting life span.

Single fiber core supports DL and UL. Built-in NMS for remote control and monitoring of the paired units and optic fiber link continuity.

Full aluminum rack structure with front slot in design for each laser module, easy field maintenance and network upgrade.

Optional dual laser module redundant version.

Model No.	EOT130-170
Part No.	RM6-A-PR-E
Frequency Range[*]	130~170MHz
RF Monitoring Ports	-40dBc(UL)
Pass Band Ripple	≤±1.5dB
RF Port Number	3(1 DL port + 1UL port + 1 coupling port)
RF Max. Input Power	10dBm (Decided by remote unit's output power and gain)
System Gain(1 OMU + 1 ORU)	40dB±3dB
Gain Adjustment Range	30dB in 1dB Step
VSWR	≤1.5:1
Impedance	50Ω
Input / Output Configuration	RF DL/UL sepsrated; Optical DL/UL combined
Optical Wavelength	1310nm/1550nm(DL/UL)
Number of Optical Slave Unit	6(build in 2 laser model + WDM)
Optical Module Output Power	3dBm (±1dBm)
Master and Slave NMS Connection	FSK via optical fiber
Alarm Detection[**]	Master unit only: Power Supply Failure; Laser Module Failure; Slave unit connected: Optical Link Failure; Radio Frequency Failure; other ORU NMS parameters
Local Alarm Indications	1. LED alarm 2. Laptop via local USB port
Remote Control Connection	Ethernet
Remote Control to Slave Unit	Downlink gain and uplink gain

Power Supply	90~265V AC,50~60Hz
Power Consumption	≤40watt
Redundancy	Dual PSU in hot standby mode
Connector	RF:N-F; Optical: FC/APC
Operating Temperature Range	-20~+55°C
Operating Humidity	0~95% (non-condensing)
Dimension(W*D*H)	483x393x178mm(4U)
Weight	14kg

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

* Operational bandwidth can be20MHz. Please specify frequency range when ordering

** All the listed alarm functions can be realized when a master unit and remote unit(s) are linked as a system