

## 1550nm External Modulated Optical transmitter



### FEATURES

- ❖ Selectable AGC (Automatic gain control) or MGC (manual gain control)
- ❖ Accepts low signal input levels (75dB $\mu$ V channel @ 77 ch NTSC)
- ❖ Unique simultaneously SBS/SPM suppressing
- ❖ Front panel LCD display
- ❖ Microprocessor control and monitor
- ❖ Microprocessor control and monitor
- ❖ RS485 interface for remote monitoring and control
- ❖ 45~870 MHz bandwidth
- ❖ Patent RF pre-distortion circuit for excellent CNR and low distortion performance
- ❖ Changeable cooling fan

### SPECIFICATIONS

Technical Parameters			
Description	Unit	Value	Conditions / Notes
Laser Type		Cooled DFB LD With	
Optical Wavelength	nm	1555 $\pm$ 5	
Connector Type		SC/APC or FC/ APC	
Laser RIN Noise Density	dB/Hz	$\geq$ -160	
Optical Output	dBm	$\geq$ -7 / 9 (optional)	
Optical Output Port		2	
SBS Suppression Threshold	dBm	13 , 16 18 optional	
RF Specifications			
Operating Bandwidth	MHz	45 to 870	
RF input Impedence	$\Omega$	75	unbalanced
RF Input Return Loss	dB	$\leq$ -16	

RF Input Level	dB $\mu$ V/ch	15 to 25 ( 80 dB $\mu$ V/ch nominal value @ 77 NTSC channels loading	
CNR	dB	52 (Typical)	Link budget is defined by output power to 0 dBm optical input at receiver under 65km fiber link + EDFA, SBS setting=16dBm test conditions.
CSO	dBc	$\leq -65$ @ Port 1 $\leq -63$ @ Port 2	
CTB	dBc	$\leq -65$ dBc	
XM	dB	$\leq -65$ dB	
OMI		3% $\pm$ 0.25	
Flatness	dB	$\leq \pm 0.75$	
Connector Type		F type female	
Test Point	dB	-10 $\pm$ 1	Relative to RF input power to laser @59CH PAL-D CW loading

### General Specifications

Control Interface		RS 485 or Ethernet	
Power Supply		90 to 260 VAC, 50/60 Hz 100W ( Max)	
Operating Temperature	$^{\circ}$ C	0 to + 50 $^{\circ}$ C	
Storage Temperature	$^{\circ}$ C	-20 to +60 $^{\circ}$ C	
Operating Humidity	$^{\circ}$ C	85% Max	
Dimensions ( H x W X D)		49 x 480 x 350	

