

### Description:

Modular optical transmitter compatible with the universal platform UMP-6U.

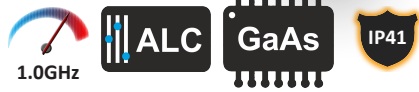
Contains two channels:

- Broadband channel for main signal
- Narrowcast channel for insertion of an additional signal.

The optical transmitter is accomplished with GaAsFET Active Components.

### Features:

- Microprocessor control
- Automatic Level Control (ALC)
- Optical Output - 8mW
- Ability to insert and adjust high level signals
- Protection Against: High Laser current bias  
Overtemperature
- RF Test Port for measuring input signal and setting the module

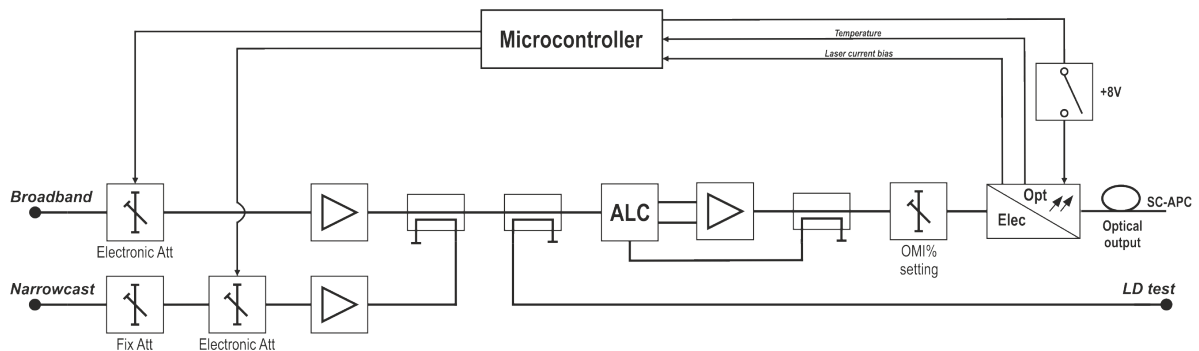


Technical Specifications	
RF Parameters	
Active Components	GaAsFET
Frequency Range	85 ÷ 1000MHz
Input Level BB <sup>1)</sup>	70dBμV
ALC Range	± 3dB <sup>1)</sup>
RF Connector Type	F (75 Ohm)
Broadband attenuator	0 ÷ 30dB/0.5dB step
Narrowcast attenuator	0 ÷ 30dB/0.5dB step
Narrowcast addition plug-in attenuator	0 ÷ 20dB/1dB step
Return Loss	≥ 18dB / 75Ω
BB to NC isolation	> 50dB <sup>2)</sup>
LD test port to BB	- 10dB <sup>3)</sup>
LD test port to NC	- 30dB <sup>4)</sup>
CTB	- 64dBc <sup>5)</sup>
CSO	- 62dBc <sup>5)</sup>

Technical Specifications	
Optical Parameters	
Laser Diode Type	DFB
Wavelength	1310nm ± 10nm
Optical Power	8mW (9dBm)
Ripple (E-O)	± 0.5dB
Optical Connector Type	SC/APC
OMI	3.8% <sup>1)</sup>

General Specifications	
Supply Voltage	24VDC
Power Consumption	≤ 7W
Dimensions	305x175x34mm
Weight	0.920kg
Operating Temperature	-20 ÷ 60°C
Protection Level	IP41 <sup>6)</sup>
Possible installation in our modular chasis UMP-6U	

- 1) Measured @ LD test port 70dBμV
- 2) All electronic attenuators set to 0dB and plug-in attenuator to 5dB
- 3) BB electronic attenuators set to 0dB
- 4) NC electronic attenuator set to 0dB and plug0in attenuator to 5dB
- 5) 42ch. CELENEC
- 6) According to IEC 529



LT-3108 CX Technical

DTK

LT-3108 CX Block Scheme