



MX-LBAND-12-T • MX-LBAND-12-R

(Transmitter)

(Receiver)

USER MANUAL



Transmitter



Receiver

PRODUCT SUMMARY

The MX-LBAND-12-T and R is a 19" 1U rack mounted optical transport for (12) L-Band Satellite signals over a single strand of fiber up to 20km.

Product features

- Web Interface
- Optional RS232 communicate port.
- Optional Integrated SNMP network management function.
- Dual Power Supplies

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CONTROLS, INDICATORS, AND ALARMS

This section of the manual will give an overview of the available menus in the MX-LBAND series. All instructions in refer to the representation of the front panel shown in the diagram below. The user scrolls through the menus using the push bottoms found on the front panel, these are located just to the right of the LCD screen.



Operation of the control panel

Open menu

Plug in power supply, the front panel will illuminate. Turn the key to the "on" position

Start-up main menu

Press ▲\▼ button to display below menu in sequence.

Model

Read-only menu, indicates the model of this unit

S/N

Read-only menu, indicates the serial-number

LNB Controller (Transmitter only)

Adjustable list, displays all 12 individual transmitter ports (channels), STATE for LNB DC power (On or Off), and BAND (for additional granularity, access this function through the web interface). *Note, under "BAND" select the following: VL = 13 VDC w/0 kHz tone, VH = 13 VDC w/22 kHz tone, HL = 18 VDC w/0 kHz tone, HH = 18 VDC w/22 kHz tone.

RF Control (Transmitter only)

Adjustable list, select how you would like the RF levels displayed (Choose dBuV or dBmV), displays all 12 Channels, Select AGC or Manual, Select OMI -15 to +15

Ambient Temp

Read-only menu, indicates the ambient temperature

Fan

Read-only menu, shows fan speed

Power 1

Read-only menu, indicates online or offline

Power 2

Read-only menu, indicates online or offline

Config Ip

Adjustable list, Static/DHCP

IP

Adjustable list, displays the address of the IP

Sub

Adjustable list, displays the address of the sub net mask

GW

Adjustable list, display the gateway address of SNMP

TR1

Adjustable list, display the TRAP1 address of SNMP

TR2

Adjustable list, display the TRAP2 address of SNMP

MAC

Read-only menu, displays the MAC address

Console Baud

Adjustable list, display the Baud Rate

HW

Read-only menu, displays the hardware version

SW

Read-only menu, displays the software version

Reboot

Adjustable list, reboot the unit

Reset

Adjustable list, resets the unit

LCD

Adjustable list, displays brightness level

Menu assistant manual ◀\▶

Press the right button to display each parameter

▶ show parameters

Stage 1 menu: Press left button ◀ to go back, press the right button ▶ to display next menu, press the UP button ▲ to go back to previous item above, pressing the DOWN button ▼ to go down to the next item

◀last ▲exit ▶next ▼down

When editing values such as IP address: Press left and right button to navigate to the characters, or up and down to edit the character current value

***Note that RF levels may be displayed in LED display screen as dBuV or dBmV.
The user may select the display type.**

Web Interface

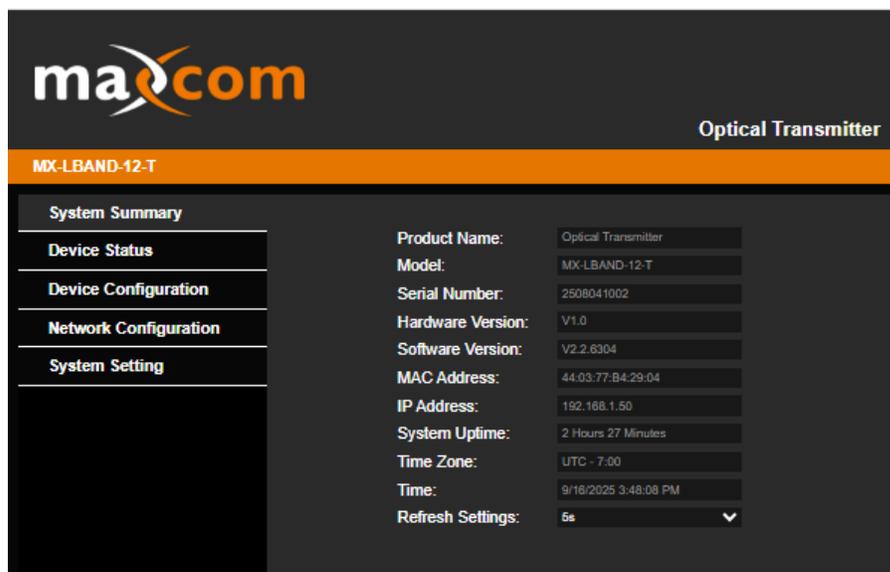
The MX-LBAND may be accessed from a web interface using the RJ45 port.

The web interface can be viewed using the default IP address **192.168.1.50**

The default username is “**admin**”, and the default password is “**admin**”

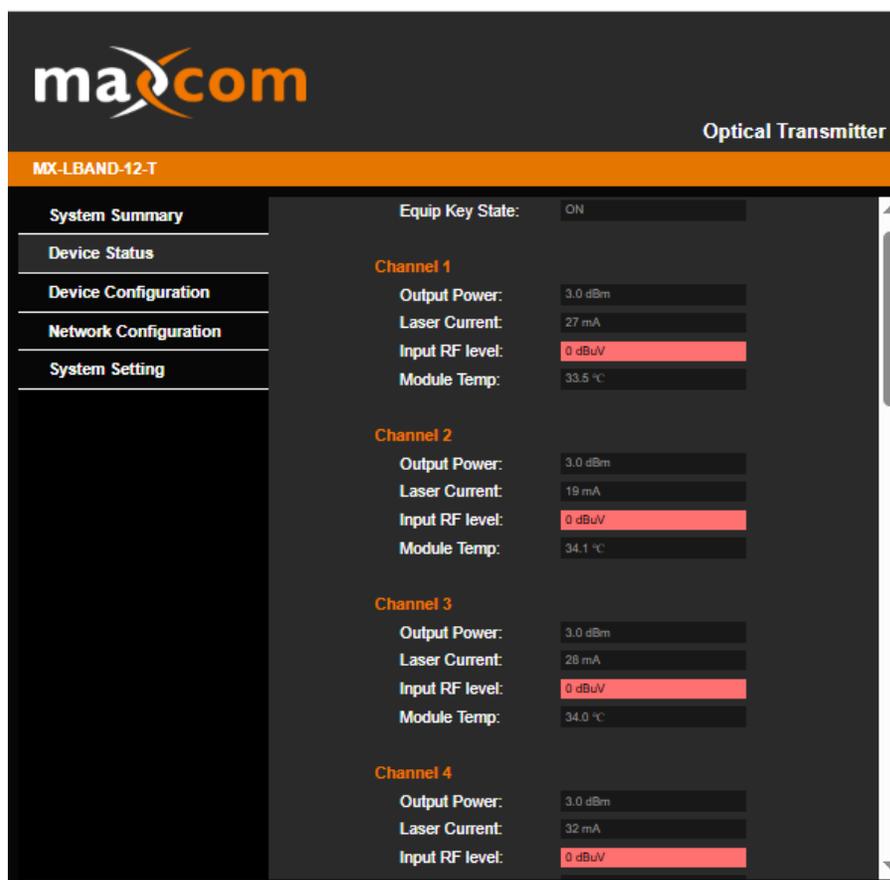
The categories will be displayed on the left side of the screen as follows.

*Note, the Transmitter and Receiver have different operational functions that are reflected on the web interface of each.



The screenshot shows the maxcom web interface for an Optical Transmitter. The page title is "Optical Transmitter" and the device model is "MX-LBAND-12-T". A sidebar on the left contains navigation links: "System Summary", "Device Status", "Device Configuration", "Network Configuration", and "System Setting". The main content area displays the following system summary information:

Product Name:	Optical Transmitter
Model:	MX-LBAND-12-T
Serial Number:	2508041002
Hardware Version:	V1.0
Software Version:	V2.2.6304
MAC Address:	44:03:77:B4:29:04
IP Address:	192.168.1.50
System Uptime:	2 Hours 27 Minutes
Time Zone:	UTC - 7:00
Time:	9/16/2025 3:48:08 PM
Refresh Settings:	5s



The screenshot shows the maxcom web interface for an Optical Transmitter, displaying channel status information. The page title is "Optical Transmitter" and the device model is "MX-LBAND-12-T". The sidebar on the left contains navigation links: "System Summary", "Device Status", "Device Configuration", "Network Configuration", and "System Setting". The main content area displays the following channel status information:

Equip Key State:	ON
Channel 1	
Output Power:	3.0 dBm
Laser Current:	27 mA
Input RF level:	0 dBuV
Module Temp:	33.5 °C
Channel 2	
Output Power:	3.0 dBm
Laser Current:	19 mA
Input RF level:	0 dBuV
Module Temp:	34.1 °C
Channel 3	
Output Power:	3.0 dBm
Laser Current:	28 mA
Input RF level:	0 dBuV
Module Temp:	34.0 °C
Channel 4	
Output Power:	3.0 dBm
Laser Current:	32 mA
Input RF level:	0 dBuV

System Summary	Channel Configuration Select Channel: Channel 1 Change Remarks: LNB Controller: OFF Band: VL (13 VDC / 0 kHz) Gain Control: AGC OMI: 0 RF Unit: dBmV
Device Status	
Device Configuration	
Network Configuration	
System Setting	

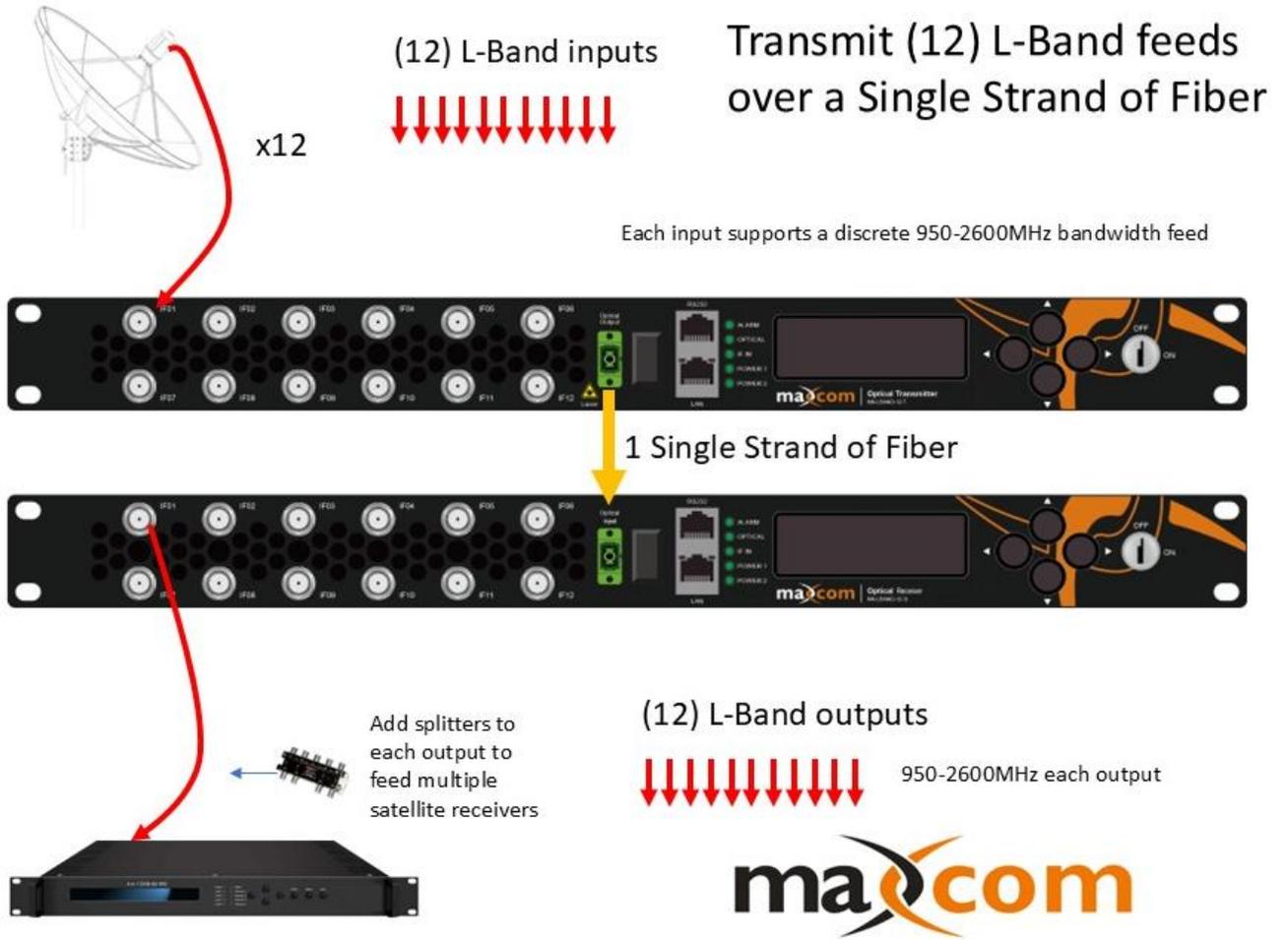
Apply Save

System Summary	HostName: OpticalTransmitter_2904 IP Setting Connection Type: Static IP Address: 192.168.1.50 Subnet Mask: 255.255.255.0 Gateway: 192.168.1.1 SNMP Name: Location: Contact: Community RO: public Community RW: private Trap Address 1: 0.0.0.0 Trap Address 2: 0.0.0.0 Trap Address 3: 0.0.0.0 Trap Address 4: 0.0.0.0 Trap Address 5: 0.0.0.0 Trap Address 6: 0.0.0.0
Device Status	
Device Configuration	
Network Configuration	
System Setting	

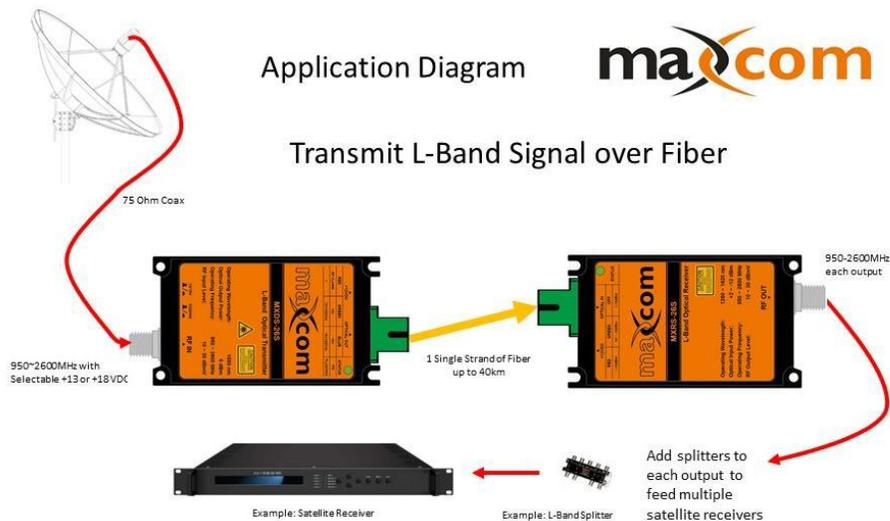
Apply Apply Apply Apply Apply Apply Apply

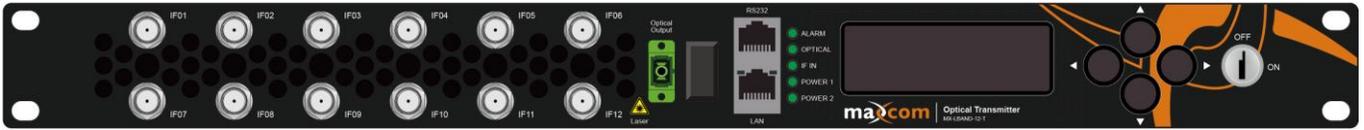
System Summary	Serial Baud Rate: 9600 System Time Set Automatically: OFF NTP Server IP: 132.163.96.1 Time Zone: UTC - 7:00 Date Setting: 09/18/2025 Time Setting: 03:54:33 PM User Configuration User Name: Password: New Name: New Password: Confirm Password: Upgrade Current SW Version: V2.2.6304 Please select upgrade file
Device Status	
Device Configuration	
Network Configuration	
System Setting	

Apply Apply Get the local system time Apply Apply Apply Reboot Browse Upgrade

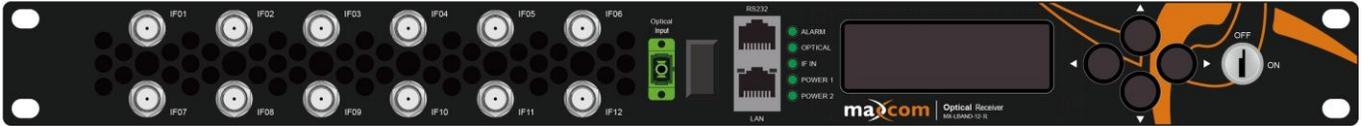


Maxcom also offers Single L-Band Transmitters and Receivers as shown below. Contact a Maxcom Sales Associate for additional information





Transmitter



Receiver



Rear

Transmitter

TECHNICAL INDEX

Optical feature					
Performance	Unit	Min.	Typ.	Max.	Supplement
Operating wavelength	(nm)	1260		1610	
Output ports			1		
Return loss	(dB)	50			
Optical connector			SC / APC		
Fiber type			Single mode		

SAT feature					
Performance	Unit	Min.	Typ.	Max.	Supplement
Operating bandwidth	(MHz)	950		2150	Avail up to 2600 MHz
Input range	(dBmV)	+10	+20	+30	
Flatness	(dB)	-2.0		+2.0	
Return loss	(dB)		10		
Input impedance	(Ω)	75			
To LNB voltage	(V)		13/18		
To LNB current	(mA)			300	
Input connector			F-Female		

General feature					
Performance	Unit	Min.	Typ.	Max.	Supplement
Power supply	(V)	90	220	265	VAC
Power consumption	(W)			50	
Operating temp.	(°C)	-5		+65	
Storage temp.	(°C)	-45		+85	
Relative humidity	(%)	5		85	
Size		483 x 340 44 mm or 19" x 13.5" x 1.75" Inches			1U

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Receiver

TECHNICAL INDEX

Optical feature					
Performance	Unit	Min.	Typ.	Max.	Supplement
Operating wavelength	(nm)	1260		1610	
Each channel receiving optic power	(dBm)	-12	-6	+0	
Return loss	(dB)	50			
Optical connector			SC / APC		

SAT feature					
Performance	Unit	Min.	Typ.	Max.	Supplement
Working bandwidth	(MHz)	950		2150	Avail up to 2600
Output level	(dBmV)	10		30	
Flatness	(dB)	-1.5		+1.5	
Output Return loss	(dB)	12			
output impedance	(Ω)		75		
RF connector			F-Female		

General feature					
Performance	Unit	Min.	Typ.	Max.	Supplement
Power supply	(V)	90	220	265	VAC
Power consumption	(W)			50	
Operating temp.	(°C)	-5		+85	
Storage temp.	(°C)	-40		+85	
Relative humidity	(%)	5		85	
Size		483 x 340 44 mm or 19" x 13.5" x 1.75" Inches			1RU