



User Manual

TOMT-1550 MINI CATV/IF TRANSMITTER

Article		Article no.	
TOMT-1550	Mini CATV/IF transmitter	307918	
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1 Safety Instructions



Read these instructions carefully before connecting the unit

ATTENTION

- Failure to comply with the specified precautionary measures may cause serious injury to persons or damage to property.
- The assembly, installation, additional electrical wiring, servicing and commissioning may only be performed by suitably qualified persons, technicians or installers in compliance with safety regulations.
- Damage due to improper installation and commissioning, defective connectors on cables or any other incorrect handling will void the warranty.

CAUTION

- The safety requirements are according to the standards EN 62368-1 resp. EN 60728-11 and must be observed, especially concerning equipotential bonding and earthing.
- Observe the relevant country-specific standards, regulations and guidelines on the installation and operation of antenna systems.
- Before starting installation or service work disconnect the receiving system from mains.
- Installation or service work should NEVER be undertaken during electrical / thunderstorms.
- Avoid short circuits!
- To ensure electromagnetic compatibility, make sure all connections are tight and that the covers are screwed on securely.
- Take action to prevent static discharge when working on the device!
- Due to the risk of fires caused by lightning strikes, we recommend that all mechanical parts (e.g. distributor, equipotential bonding rail, etc.) be mounted on a non-combustible base. Wood panelling, wooden beams, plastic covered panels and plastic panels are all examples of combustible bases.



To prevent fire, short circuit or shock hazard:

- Do not expose the unit to rain or moisture.
- Install the unit in a dry location without infiltration or condensation of water.
- Do not expose it to dripping or splashing.
- Do not place objects filled with liquids, such as vases, on the apparatus.
- If any liquid should accidentally fall into the cabinet, disconnect the power plug.



To avoid any risk of overheating:

- Install the unit in a well aired location and keep a minimum distance of 5 cm around the apparatus for sufficient ventilation.
- Do not place any items such as newspapers, tablecloths, curtains, on the unit that might cover the ventilation holes.

- Do not place any naked flame sources, such as lit candles, on the apparatus.
- Do not install the product in a dusty place.
- Use the apparatus only in moderate climates (not in tropical climates).
- Respect the minimum and maximum temperature specifications.

 To avoid any risk of electrical shocks:

- The mains plug shall remain readily operable.
- Pull out power plug to make the different connections of cables.
- To avoid electrical shock, do not open the housing of the product.

 Warning



To avoid exposure to laser radiation from optical fibre or active optical devices like transmitters or receivers which pose a hazard to your health, you should:

- Never look into an exposed end of an optical fibre or mirror surfaces that could reflect light from an open optical fibre.
- Never look into an optical fibre connected to the radiation source with optical instruments (magnifying glass, microscope, etc...).
- Use an approved fibre optic cable to maintain conformity with applicable laser safety requirements.

Concerning fibre optic cables:

- Wearing protective goggles is recommended.
- You should handle fibre optic cables with extreme caution, particularly when unbundling or terminating a cable. The internal glass core of a fibre optic cable is brittle when the shielding and buffer material is removed. It will easily disintegrate into small pieces which may cause injury to the human body.
- Remove all filings immediately using tweezers, place them in a tightly sealed dustbin and dispose in accordance with local regulations.



Maintenance

-  Only use a dry soft cloth to clean the cabinet.
-  Do not use solvent.
-  For repairing and servicing, refer to qualified personnel.



Dispose according to your local authority's recycling processes

Electronic devices should never be disposed of in the household rubbish. In accordance with directive 2002/96/EC of the European Parliament and the European Council from January 27, 2003 which addresses old electronic and electrical devices, such devices must be disposed of at a designated collection facility. At the end of its service life, please take your device to one of these public collection facilities for proper disposal.

2 Introduction

2.1 Product description

The TRIAX TOMT-1550 is a compact optical mini transmitter delivering 5dBm output at 1550nm, designed for CATV/IF signal transmission over the 47-2400 MHz frequency range.

- Designed for FTTH (Fibre To The Home) networks
- Wide operating frequency range: 47-2400MHz
- Excellent linearity and flatness
- High return loss
- Uses GaAs amplifiers
- Ultra-low noise technology
- Uses DFB coaxial small package laser
- Compact design for easier installation
- LED for power indication
- Output 13/18V, 0/22KHz for LNB use
- Use with TRIAX TOMR Mini Receiver for Point to Point

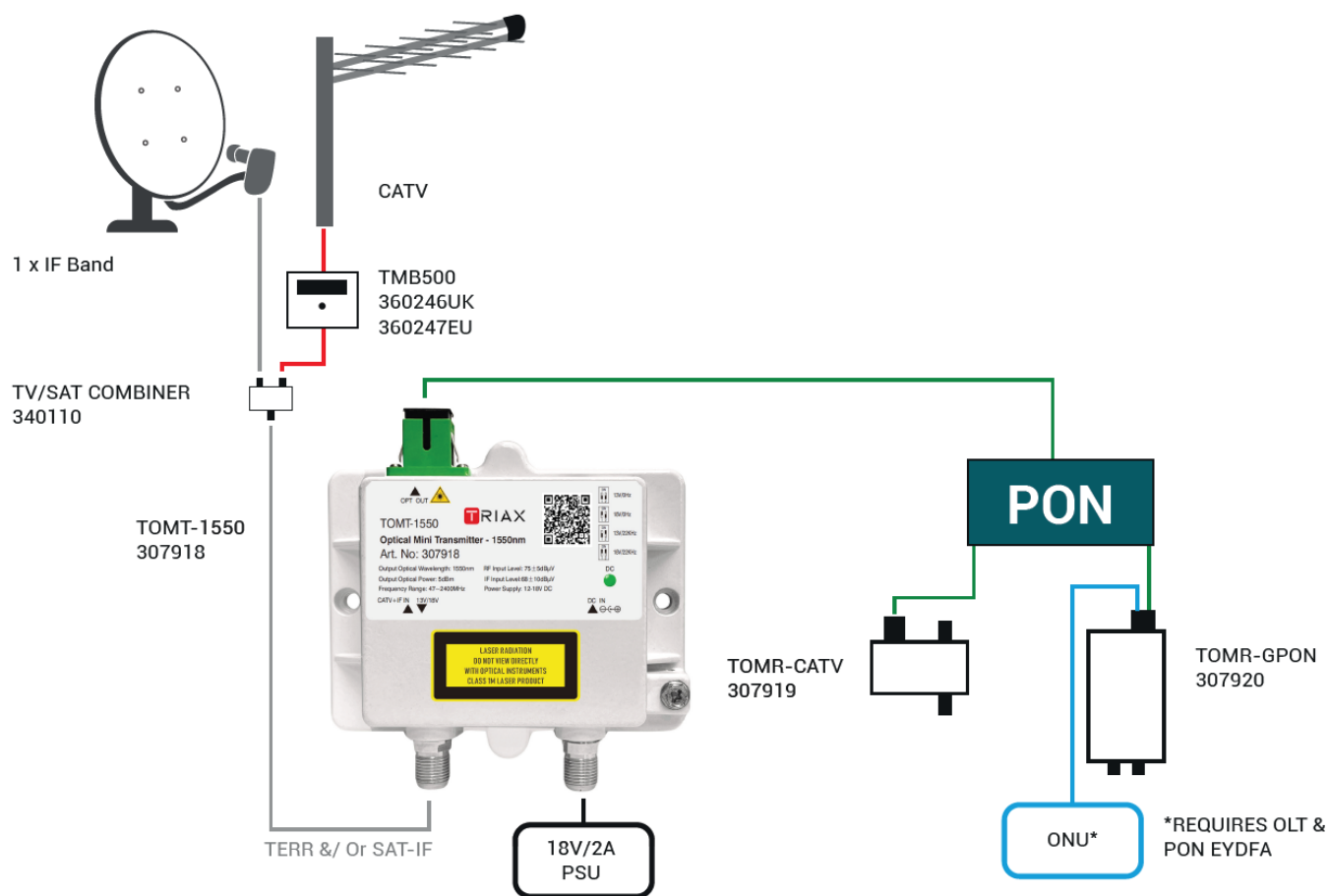
Remark: TOMT Series Supplied with 12V PSU

2.2 Installation

Preparation before installation:

- **Observe instructions given at chapter 1**
- Please ensure the interface of the fibre is clean before connecting the fibre
- If needed clean the fibre connector with the correct tool

2.3 Installation schematic example



3 Technical specifications

Category	Items	Unit	Value
Connectors	RF	-	F-female
	Optical	-	SC/APC
	Power supply	-	F-female
Optical parameters	Optical return loss	dB	≥ 45
	Output optical wavelength	nm	1550
	Output optical power	mW	5
	Optical fibre type	-	Single mode
CATV + SAT-IF parameters	Frequency range	MHz	47-862 @ CATV
			950-2400 @ SAT-IF
	CATV flatness	dB	± 0.75
	CATV input Level	dBμV	75 ± 5
	Input impedance	Ω	75
	Return loss	dB	≥ 14
	CNR	dB	≥ 52
	CSO	dB	≥ 62
	CTB	dB	≥ 65
	SAT-IF flatness	dB	± 1.5
	SAT-IF input level	dBμV	68 ± 10
	LNB power supply	VDC	13-18
	Maximum current	mA	500
	22 kHz accuracy	kHz	22 ± 4
	Power supply	VDC	12-18
	Power consumption	W	< 3
	Dimension	mm	100 × 98 × 28
	Altitude operation	M	Max. 2000m above sea level
	Housing material	-	Aluminium alloy

4 EU Declaration of Conformity

The product Declaration of Conformity can be downloaded from the product page at www.com.com

5 Conditions of warranty

TRIAX UK warrants the product as being free from defects in material and workmanship for a period of 24 months starting from the date of production indicated on it. See note below.

If during this period of warranty, the product proves defective, under normal use, due to defective materials or workmanship, TRIAX UK, at its sole discretion, will repair or replace the product. Return the product to your local dealer for reparation.

THE WARRANTY IS APPLIED ONLY FOR DEFECTS IN MATERIAL AND WORKMANSHIP AND DOES NOT COVER DAMAGE RESULTING FROM:

- Misuse or use of the product outside of its specifications,
- Installation or use in a manner inconsistent with the technical or safety standards in force in the country where the product is used,
- Use of non-suitable accessories (power supply, adapters...),
- Installation in a defective system,
- External cause beyond the control of TRIAX UK such as drop, accidents, lightning, fire, ...

THE WARRANTY IS NOT APPLIED IF

- Production date or serial number on the product is illegible, altered, deleted or removed.
- The product has been opened or repaired by a non-authorized person.

NOTE

Date of production can be found in the product's serial number code. The format is "YYWW123456 (YEAR, WEEK, 123456 product unique number), e.g. 2532000020 = year 2025 week 32, product No.20 of this batch.



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