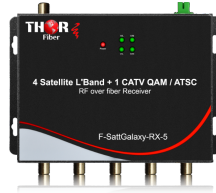


4 x Satellite L-Band LNB + 1 CATV QAM / ATSC RF over Fiber



4 satellite L-Band polarity feeds plus one CATV/QAM/ATSC terrestrial RF feed over one single-mode fiber.



Receiver product image - original uploaded product image

Model Number

F-SattGalaxy-TX/RX-5

Manufacturer: Thor Fiber

Primary Purpose: The Thor Fiber F-SattGalaxy-TX/RX-5 transports four satellite L-Band/LNB polarity feeds plus one CATV/QAM/ATSC terrestrial RF feed over one single-mode fiber. The system is designed for MDU, hospitality, commercial satellite distribution, and long coax replacement applications where multiple satellite and off-air feeds must be extended cleanly over fiber.

Key Specifications

Spec Category	Extracted Value
Model Number	F-SattGalaxy-TX/RX-5
System Type	4 satellite L-Band + 1 CATV/QAM/ATSC RF over fiber transmitter / receiver kit
RF Inputs / Outputs	5 independent RF paths: 4 satellite L-Band inputs plus 1 terrestrial CATV/QAM/ATSC input
Satellite Frequency	950-2150 MHz per satellite input
CATV / Off-Air Frequency	47-900 MHz terrestrial RF input; supports ATSC, NTSC, DVB-T, ISDB-T, DVB-C QAM, and RF FM radio within supported band
LNB Power	13 V, 18 V, 13 V + 22 kHz, 18 V + 22 kHz; 0 V for terrestrial input
RF Level	75 +/- 10 dBuV nominal RF input/output level; receiver includes AGC
Optical Platform	Built-in CWDM wavelength division multiplexing over one single-mode fiber
CWDM Wavelengths	VL 1510 nm, HL 1530 nm, VH/Terr 1550 nm, HH 1570 nm; terrestrial wavelength shown as model dependent
Optical Connector	SC/APC angle-polished connector
RF Connectors	F-Type, 75 ohm
Optical Output Power	+2 to +10 dBm transmitter output, model dependent
Receiver Optical Input	-14 to +3 dBm; AGC range -7 to +2 dBm
Power	20 VDC; transmitter <15 W, receiver <10 W
Operating Temperature	-10C to +40C
Mechanical	TX: 195 x 128 x 40 mm; RX: 197 x 134 x 51 mm; receiver weight approx. 2.0 lb

Core Features

- **Five RF Paths Over One Fiber:** Carries four satellite L-Band feeds plus one terrestrial CATV/QAM/ATSC feed.
- **Single-Mode Fiber Transport:** Replaces long multi-coax trunks with one SC/APC single-mode fiber link.
- **LNB Power Support:** Provides the required 13/18 V and 22 kHz tone combinations for common satellite LNB polarity feeds.
- **MDU Ready:** Point-to-point and point-to-multipoint systems can support 1x4, 1x8, 1x16, or 1x32 receiver distributions.
- **Wide RF Compatibility:** Transparent RF transport supports satellite modulation and terrestrial RF formats within the supported frequency ranges.
- **AGC Receiver Output:** Automatic gain control helps maintain stable RF output at the receiver side.
- **Compact Wall-Mount Units:** Small form factor for antenna rooms, telecom closets, risers, and MDU distribution points.
- **DirectTV / Dish Friendly:** Works with standard dish and multiswitch architectures when installed between LNB outputs and the multiswitch/SWIM stage.

Product Images



Connector / RF port image - original uploaded product image

Target Applications

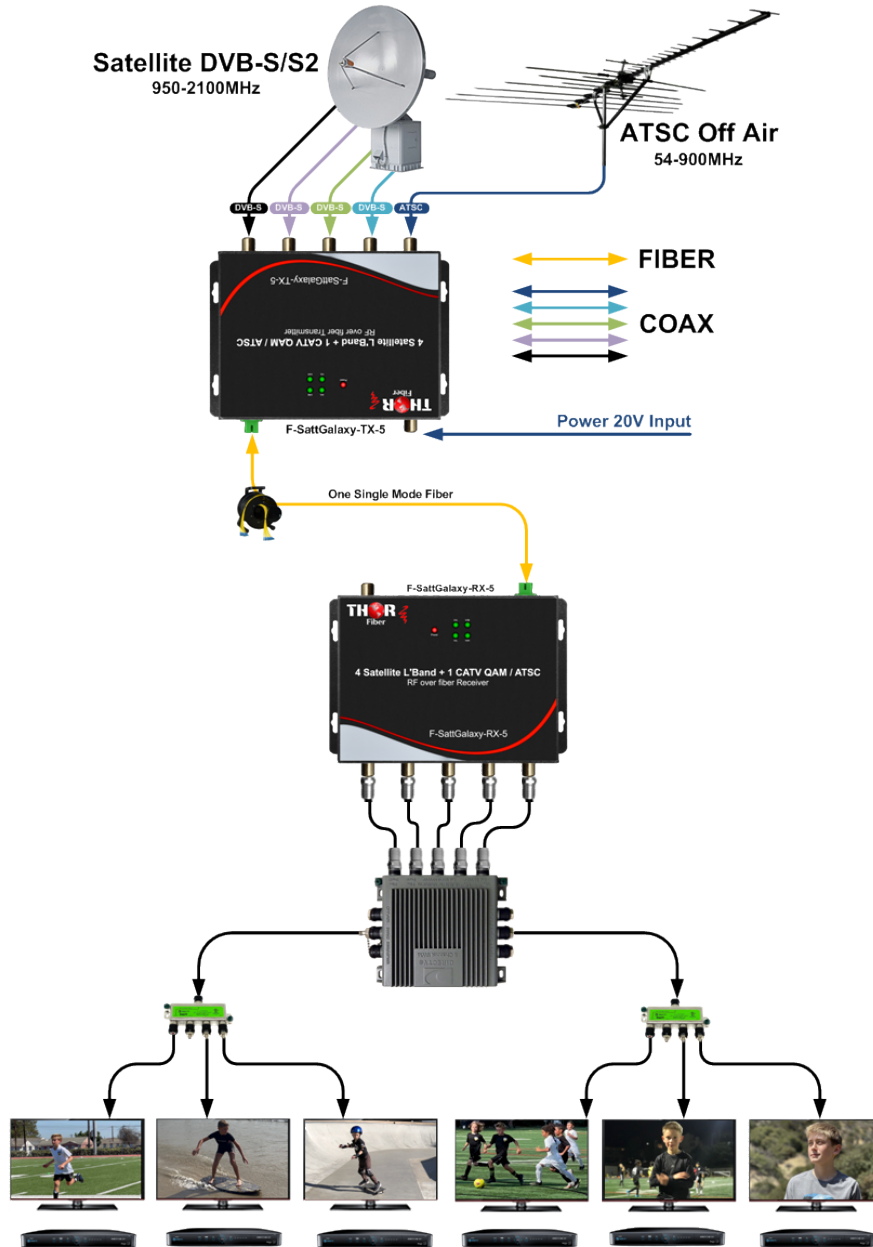
- MDU satellite distribution
- Off-air TV antenna extension
- Hospitality TV systems
- Replacing long coax trunk runs
- DirectTV or Dish over fiber
- Remote dish farms
- Commercial dish-to-headend links
- Point-to-multipoint RF distribution

Additional Product Information

Item	Extracted Value
Fiber Type	Single-mode fiber only
Optical Connector	SC/APC
Distribution Options	Point-to-point or point-to-multipoint up to 1x32, model and optical budget dependent
Typical Sources	Quad/quattro LNBs, satellite dish feeds, terrestrial antenna arrays, CATV/QAM RF feeds
Warranty	1 year warranty listed on product page
Important Note	Optical power and receiver count are model dependent and should be selected by optical budget.

Application Drawing

4 satellite L'Band + 1 CATV QAM / ATSC RF over Fiber Transmitter/Receiver



4 satellite L-Band + 1 CATV/QAM/ATSC RF over fiber transmitter / receiver system application drawing.

Model Selection

Model	Description	Notes
F-SattGalaxy-TX/RX-5	4 L-Band + CATV RF point-to-point transmitter/receiver kit	TX optical power balanced for 1 receiver
F-SattGalaxy-TX/RX-5-1X4	1 transmitter + 4 receivers + 1x4 optical splitter kit	Point-to-4 MDU system
F-SattGalaxy-TX/RX-5-1X8	1 transmitter + 8 receivers + 1x8 optical splitter kit	Point-to-8 MDU system
F-SattGalaxy-TX/RX-5-1X16	1 transmitter + 16 receivers + 1x16 optical splitter kit	Point-to-16 MDU system
F-SattGalaxy-TX/RX-5-1X32	1 transmitter + 32 receivers + 1x32 optical splitter kit	Point-to-32 MDU system

Technical Notes

- All specifications are subject to change without notice.
- Optical distance and receiver count depend on transmitter optical power, splitter loss, fiber loss, connector condition, and receiver optical input range.
- Use single-mode fiber with SC/APC connectors to reduce reflections and maintain RF/optical performance.
- This system is transparent within the supported RF bands; final satellite compatibility depends on dish, LNB, multiswitch/SWiM architecture, and RF level plan.
- The included QR code links directly to the product page for the latest product information.