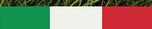


# FTTH SOLUTIONS

Active and passive solutions  
Instruments  
Support  
Services

Italian innovation  
 SINCE 1933

**FRACARRO**



# THE ADVANTAGES OF OPTICAL FIBER SOLUTIONS

The use of an **FTTH technology** offers many advantages. It helps ensure sustainable costs, prepares the infrastructure for future technological developments, and provides equal opportunities for users to access digital content. These benefits translate into a wide range of noteworthy advantages:

- **A single network** capable of distributing a **variety of new services**.
- **Reduced costs** for maintenance and technological upgrades..
- An open and **neutral platform** that supports all types of applications..
- A simplified optical network that results in more aesthetically pleasing buildings.
- A technological enhancement that **increases the value of the building**.

## FRACARRO PROFESSIONAL SERVICES

Choosing a **Fracarro hospitality solution** means gaining access to cutting-edge technologies and a **wide range of options** suitable for any type of installation. Fracarro also provides a variety of essential services designed to support installers.

### DESIGN SUPPORT

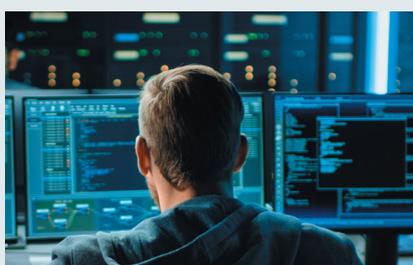
Our technical specialists are ready to guide you in identifying the most suitable solution to meet your guests' needs. Using your facility's floor plans, we design custom system layouts for optimal functionality, comfort, and efficiency. We also provide comprehensive, detailed Bills of Materials (BOM) that give a clear overview of the proposed solution, assisting you throughout the decision-making and implementation process.

### ON LINE SUPPORT

Our dedicated support team is available Monday through Friday, 9:00 a.m. to 5:00 p.m. (Time Zone). We are here to assist with all technical inquiries about our products and solutions, provide clear, personalized guidance, and offer general information needed to identify the optimal solution for your specific requirements. Contact: [supportotecnico@fracarro.com](mailto:supportotecnico@fracarro.com)

### REMOTE COMMISSIONING AND TESTING

Our skilled technical team offers remote support to streamline the installation, programming, and management of your head ends. We ensure every step is effortless, providing fast, accurate configuration, expert consulting, and guided setup. To further elevate your operations, we also deliver enhanced monitoring solutions designed for optimal performance and maximum reliability.



# PASSIVE COMPONENTS

## TDT - Head Terminal Box

The **HEAD TERMINAL BOX** (also known as TDT or STOM - Riser Optical Termination Box) is designed to **house and terminate the optical fibers for building services originating from the roof**, such as Terrestrial Digital signals (DVB-T2/T), DVB-S2 satellite signals, or signals from wireless operators. It also accommodates the fibers coming from the Building Optical Cabinet and is suitable for both indoor and outdoor installations, thanks to its IP66-rated protection.

- Suitable for **indoor or outdoor applications**
- **IP66-rated** protection
- Includes accessories



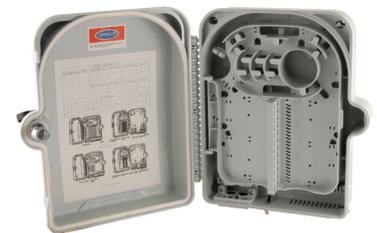
TDT8



TDT12

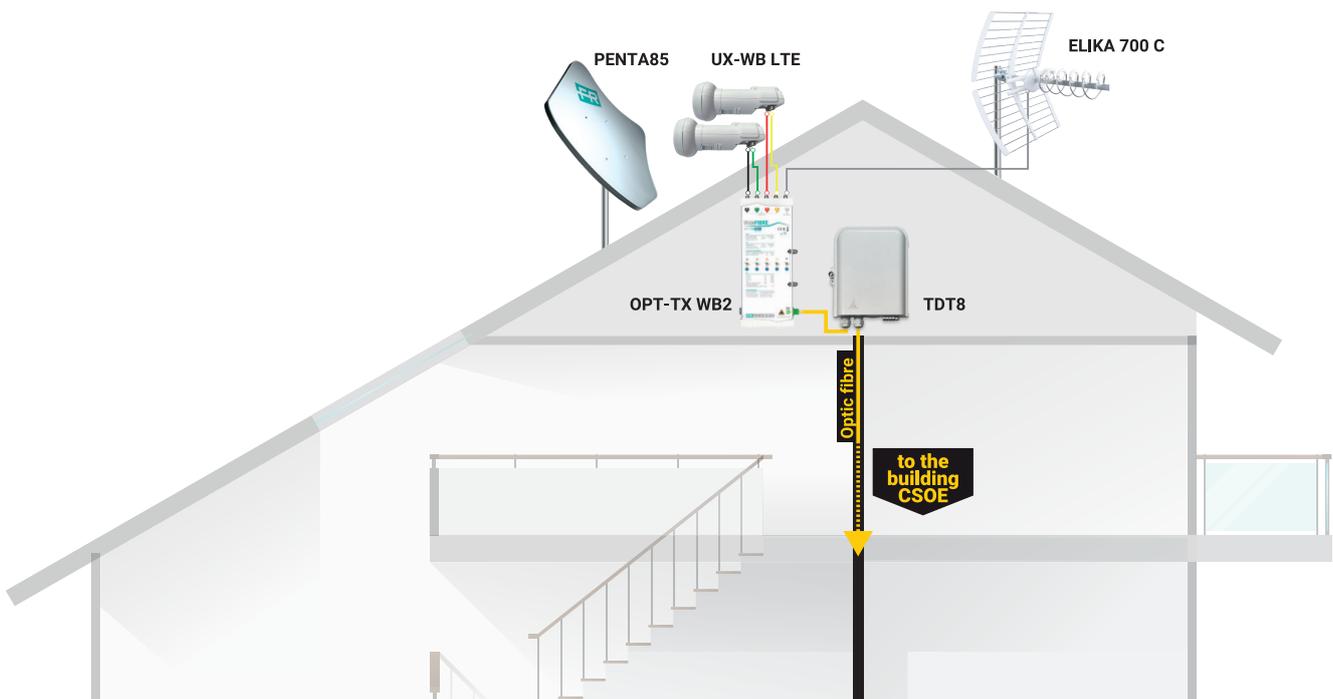


TDT48



TDT24

ITEM	CODE	DIMENSIONS mm	CAPACITY	MATERIAL
TDT8	287696	227x181x54,5	8 connectors	plastic
TDT12	287419	235x205x60	12 connectors	plastic
TDT24	287697	320x240x100	24 connectors	plastic
TDT48	287698	420x320x125	48 connectors	plastic



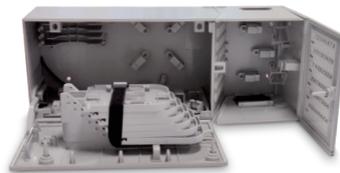
## CSOE - Building Optical Main Cabinet and ROE - Building Optical Splitting Box

Installed in a suitable technical room, the **CSOE** (Centralized Optical Distribution Cabinet) serves as the central access point where all main building services -such as Digital Terrestrial TV, satellite signals, and ISP networks- converge. From this point, optical fibers distribute services to individual apartments. Each ISP and Terrestrial/Satellite signal is routed through a dedicated **ROE** (Building Optical Splitting Box) before being distributed via the CSOE.

- Designed for splicing optical fiber cables or pre-terminated STOAs.
- Compatible with 19-inch rack installation (item 287418 CSOE 2U)
- Supports OPB24IR and OPB48IR optical splitter trays for rack setups
- ROE units can use PLC optical splitters.



CSOE 2U



CSOE\_P



CSOE\_MINI\_P

ITEM	CODE	DIMENSIONS mm	MATERIAL
CSOE 2U	287418	454x152x180	metal
CSOE_P	287567	450x180x150	plastics, with optical organiser included
CSOE_MINI_P	287566	332x155x105	plastics, with optical organiser included
OPB24IR	289404	240 x 482 x 88	metal optical drawer, up to 24x SC optical adapters included
OPB48IR	287757	240 x 482 x 88	metal optical drawer, up to 48x SC optical adapters included

## Optical Splitters

**PLC splitters** are based on planar waveguide technology, ensuring low insertion loss. They are ideal for high-performance optical distribution across a variety of installation types and are also available in a miniaturized form.



PLC 1x8



PLC 1x2 MINI



PLC 2x8 MINI

ITEM	CODE	LENGTH m
PLC 1x2	287573	2
PLC 1x4	287455	4
PLC 1x8	287407	8
PLC 1x12	287574	12
PLC 1x16	287408	16
PLC 1x24	287575	24
PLC 1x32	287409	32
PLC 1x64	287410	64

ITEM	CODE	LENGTH m
PLC 1x2 MINI	287576	2
PLC 1x4 MINI	287577	4
PLC 1x8 MINI	287578	8
PLC 1x12 MINI	287579	12
PLC 1x16 MINI	287580	16
PLC 1x24 MINI	287581	24
PLC 1x32 MINI	287582	32
PLC 1x64 MINI	287583	64

ITEM	CODE	LENGTH m
PLC 2x8 MINI*	287753	8
PLC 2x16 MINI*	287754	16
PLC 2x32 MINI*	287755	32

\* 2-inputs models

# PASSIVE COMPONENTS

## QDSA - Apartment Signal Distribution Cabinet

Optical distribution wallboxes, available in **plastic or metal** and in various sizes, designed for use as Apartment Signal Distribution Cabinets (QDSA). These cabinets connect to the optical fiber cables from the **Main Building Optical Cabinet (CSOE)**. Inside the QDSA, pre-terminated STOA's, along with active and passive devices, are neatly organized.

- 1 **STOA** Apartment Optical Termination Box
- 2 **Digital TV/SAT Service** optical fiber receiver
- 3 **DATA Service** ONT equipped with optical fiber input



QDSA

ITEM	CODE	DIMENSIONS mm	CAPACITY	MATERIAL
QDSA	287472	610x455x136	Recessed pre-fitted 54 modules	plastic
QDSA36P	287758	430x410x80	Recessed 36 modules	plastic
QDSA36PFA	270910	430x410x80	Recessed 36 modules with perforated metal bottom	plastic <b>NEW</b>
QDSA36CP	287870	430x410x80	Recessed 36 modules for plasterboard	plastic <b>NEW</b>
QDSA54P	287759	618x430x80	Recessed 54 modules	plastic
QDSA54PFA	270911	618x430x80	Recessed 54 modules with perforated metal bottom	plastic <b>NEW</b>
QDSA54CP	287869	618x430x80	Recessed 54 modules for plasterboard	plastic <b>NEW</b>
QDSA-F	287565	577x407x100	Recessed 54 modules	metal
QDSA MINI F	287517	392x307x100	Recessed 36 modules	metal

## QDSA Supports

ITEM	CODE	DESCRIPTION
SUPQDSAX6	270907	Perforated support for mounting products in the QDSA, replacing DIN rails. Screws included in the package.
SUPQDSA12KEYX2	270908	Perforated support for mounting products in the QDSA, replacing DIN rails, with 12 angled holes for Keystone sockets. Screws included in the package.
SUPSTAFFA	270909	Support bracket for QDSA. Can be fixed to the DIN rail or the perforated base SUPQDSAX6.

## DIN Rail Supports

DIN rail supports for installing products within the Apartment Signal Distribution Panel (QDSA) or racks.

**Available in various sizes**, including modular options.

ITEM	CODE	DESCRIPTION
SUPDIN140	271201	14cm DIN Rail Support
SUPDIN265	271202	26.5cm DIN Rail modular support suitable for installation of different size products

## STOA Apartment Optical Termination Box

It serves as the designated termination point for the FTTH multiservice system and should be installed near the residential units, typically within the Apartment Signal Distribution Panel (QDSA). These plastic optical distribution boxes come equipped with 4 × SC/APC adapters with shutters and are suitable for use as Apartment Optical Termination Boxes. They are available with pre-terminated G657 A2 3 mm cables in various lengths.

- Fracarro STOAs are equipped with **Cca, s1a, d0, a1 class** cables in compliance with the latest CPR regulations.
- STOA 4: **SC/APC connectors on both ends**
- STOA 4 LITE: SC/APC connectors only on the plastic box side
- Dimensions: 100 x 29 x 80mm



STOA 4 available in various sizes



STOA 4 BOX



ITEM	CODE	LENGTH m
STOA 4 (only box)	287420	-
STOA 4C 10m*	287738	10
STOA 4C 20m*	287739	20
STOA 4C 30m*	287740	30
STOA 4C 40m*	287741	40
STOA 4C 50m*	287742	50
STOA 4C 60m*	287743	60
STOA 4C 70m*	287744	70
STOA 4C 80m*	287745	80
STOA 4C 90m*	287746	90
STOA4C 100m*	287727	100
STOA4C 10m LITE	287747	10
STOA4C 20m LITE	287748	20
STOA4C 30m LITE	287749	30
STOA4C 40m LITE	287750	40
STOA4C 50m LITE	287751	50
STOA4C 100m LITE	287752	100

\* Also available with custom lengths.

## Optical Attenuators

In-line optical fiber attenuators with SC/APC connectors.



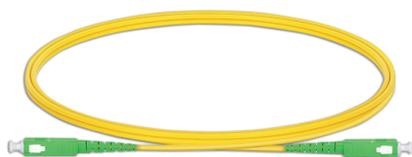
OPTATT...

ITEM	CODE	DESCRIPTION
OPTATT14dB	287237	14dB optical attenuator (SC/APC connector)
OPTATT7dB	287238	7dB optical attenuator (SC/APC connector)
OPTATT3dB	287239	3dB optical attenuator (SC/APC connector)

# PASSIVE FIBER COMPONENTS

## Single-fiber patch cords and pigtails

Single-mode optical fiber patch cords with a semi-loose tube configuration, available in **single or duplex versions** (G657 A1 type). They are also offered with a PULL traction system for added support during installation.



BR1/2-AA



BR2E-LU-LU-D

CONNECTORS	LENGTH (M)	ITEM	CODE	PULL
SC/APC - SC/APC	1	PIG TAIL	287426	-
SC/APC - SC/APC	0,5	BR1/2-AA	287832	-
	1	BR1-AA	287522	-
	2	BR2-AA	289360	-
	4	BR4-AA	289362	-
	5	BR5-AA	287690	-
	10	BR10-AA-PS	287689	Yes
SC/APC - SC/UPC	20	BR20-AA-PS	287645	Yes
	1	BR1-PA	287828	-
	2	BR2-PA	289359	-
	4	BR4-PA	289361	-
	5	BR5-PA	287688	-
	10	BR10-PA-PS	287687	Yes
SC/APC - FC/APC	20	BR20-PA-PS	287686	Yes
	1	FC-SC/APC PATCH	280011	-
SC/APC - FC/PC	2	BR2SCAPC-FCAPC	287427	-
	2	BR2FC/PC-SC/AP	287521	-
SC/UPC - SC/UPC	1	BR1-PP	287691	-
SC/APC - LC/UPC	1	BR1E-SA-LU-D	287695	-
	2	BR2E-SA-LU-D	287694	-
LC/UPC - LC/UPC	1	BR1E-LU-LU-D	287693	-
	2	BR2E-LU-LU-D	287692	-



## Multifiber CABLES

**Single-mode multifiber cables** are available for indoor use, with **armored versions** for outdoor applications. The loose-tube design provides enhanced protection against moisture and mechanical stress, while the 9/125 single-mode fibers ensure high performance with minimal signal loss.



OPC4IN\_CCA



OPC24MULTI457



OPC8ARM457

INDOOR CABLES						
No. Fibers	Class	Item	Code	Diameter (mm)	Sheath	Length (m)
4	CCA	<b>OPC4IN_CCA</b>	287736	3	Single	250
8	CCA	<b>OPC8IN457CCA</b>	287795	3	Single	457
4	B2CA	<b>OPC4IN_DG_B2CA</b>	287840	4	Double	250
8	B2CA	<b>OPC8IN_DG_B2CA</b>	287841	4	Double	457
24	B2CA	<b>OPC24MULTI457</b>	287819	8.5	Single	457



OUTDOOR CABLES						
No. Fibers	Class	Item	Code	Diameter (mm)	Sheath	Length (m)
4	FCA	<b>OPC4ARM457</b>	287814	6	Single	457
8	FCA	<b>OPC8ARM457</b>	287815	6	Single	457



## PRE-TERMINATED MULTIFIBER CABLES

**Pre-terminated 4-fiber cables** with SC/APC connectors and a PULL traction system. They offer increased robustness in critical situations thanks to the dual sheath design of the cable.



No. Fibers	Class	Item	Code	Diameter (mm)	Sheath	Length (m)
4	B2CA	<b>BR4B30-AA-PS</b>	287846	4	Double	30
4	B2CA	<b>BR4B40-AA-PS</b>	287847	4	Double	40
4	B2CA	<b>BR4B50-AA-PS</b>	287848	4	Double	50
4	B2CA	<b>BR4B70-AA-PS</b>	287849	4	Double	70
4	B2CA	<b>BR4B100-AA-PS</b>	287850	4	Double	100



# ACTIVE DEVICES

## Digital Terrestrial and Full Satellite distribution

**HOME FIBER** includes a series of **optical transmitters and receivers** designed to convert and distribute satellite polarities, digital terrestrial TV signals, and radio signals over an FTTH fiber optic infrastructure. The HOME FIBER transmitter series offers multiple models operating at different optical wavelengths, enabling the distribution of up to four complete satellite positions over a single optical fiber using **CWDM** (Coarse Wavelength Division Multiplexing) technology.

### Advantages of HOME FIBER Transmitters

- Supports installation of a **traditional satellite dish with a quattro LNB**
- Equipped with AGC, allowing the use of dishes of various diameters
- Cascade configuration typical of MSW systems, with up to 21 dB optical path attenuation
- **Easy and intuitive** installation
- Transmission of the complete terrestrial TV band



OPT-TX RP



OPT-TX DT



OPT-TX 1510



OPT-TX 1530



OPT-TX 1550



OPT-TX 1570

ITEM	CODE	DESCRIPTION
<b>OPT-TX RP</b>	270652	Optical transmitter equipped with 5 separate independent inputs (VL, VH, HL, HH and TV). Output power 7dBm @ 1310nm. Remote powered with F connector. Recommended power supply PSU1430F/UK (code 287647) or PSU1430F (code 287614)
<b>OPT-TX DT</b>	270694	Optical transmitter equipped with 5 separate independent inputs (VL, VH, HL, HH and TV). Output power 7dBm @ 1310nm.
<b>KIT OPT-TX RP</b>	270651	KIT composed by OPT-TX RP remote powered optical transmitter and PSU1430F (287614) power supply.
<b>OPT-TX 1510</b>	270667	Optical transmitter equipped with 5 separate independent inputs (VL, VH, HL, HH and TV). Output power 7dBm @ 1510nm.
<b>OPT-TX 1530</b>	270668	Optical transmitter equipped with 5 separate independent inputs (VL, VH, HL, HH and TV). Output power 7dBm @ 1530nm.
<b>OPT-TX 1550</b>	270669	Optical transmitter equipped with 5 separate independent inputs (VL, VH, HL, HH and TV). Output power 7dBm @ 1550nm.
<b>OPT-TX 1570</b>	270670	Optical transmitter equipped with 5 separate independent inputs (VL, VH, HL, HH and TV). Output power 7dBm @ 1570nm.

### HOME FIBER receivers key points

- **Compact size** for easy installation
- Multicolour **LED** for receiver diagnostics
- Ideal for managing TV/SAT signals in fiber optic systems
- Compatible with **dCSS, SCR and dSCR/SKY UK** systems



OPT-RX 4 MICRO



OPT-RX QD MICRO

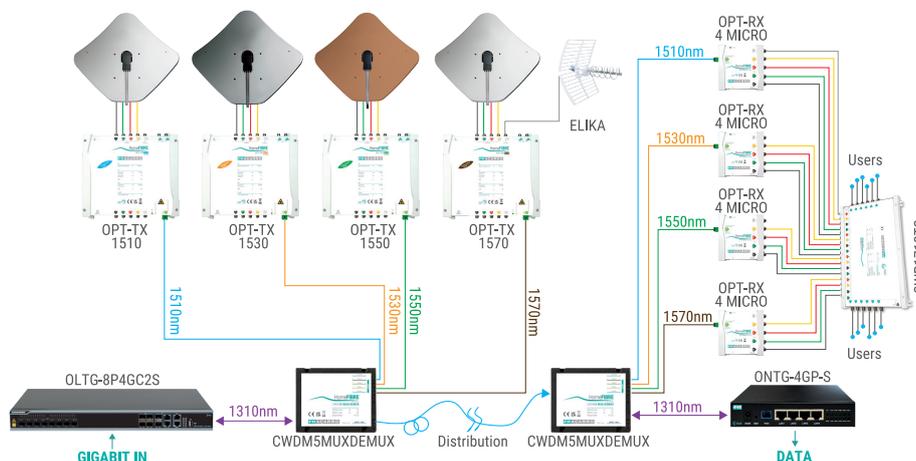


OPT-RX SCD2 MICRO



OPT-RX dSCR UK

ITEM	CODE	DESCRIPTION
<b>OPT-RX 4 MICRO</b>	270662	Optical receiver equipped with 5 independent outputs for VL, VH, HL, HH and TV. Extended optical receiving range ( <b>-8dBmo to -14dBmo</b> ). Multifunction LEDs and very low current consumption.
<b>OPT-RX QD MICRO</b>	270661	Optical receiver equipped with four universal and independent outputs (mixed SAT+TV+FM). Extended optical receiving range ( <b>-8dBmo to -14dBmo</b> ). Multifunction LEDs and very low current consumption. Auxiliary input connector for external power supply.
<b>OPT-RX SCD2 MICRO</b>	270660	Optical receiver equipped with four outputs, <b>two with dCSS and mixed TV+FM signal and two with SAT Legacy</b> and mixed TV+FM . Extended optical receiving range ( <b>-8dBmo to -14dBmo</b> ). Multifunction LEDs and very low current consumption. SCR/dCSS protocol compliance.
<b>OPT-RX dSCR UK</b>	270658	Optical receiver equipped with four outputs, two with dSCR UK and mixed TV+FM signal and two with SAT Legacy and mixed TV+FM . Extended optical receiving range ( <b>-8dBmo to -14dBmo</b> ). Multifunction LEDs and very low current consumption. <b>dSCR/SKY UK protocol compliance.</b>
<b>GPON RX TV ACT</b>	287852	Passive Optical Network Terminal for <b>digital TV signal</b> distribution using the PON network. The receiver is equipped with an <b>integrated WDM</b> demultiplexer to separate the TV band from the data.



# ACTIVE DEVICES

## Digital Terrestrial and Full Satellite distribution

**WIDE FIBER** is Fracarro's latest range of optical transmitters and receivers, designed to handle satellite and terrestrial signals using **WIDEBAND** technology. These solutions halve the number of coaxial cables needed to connect satellite signals to the transmitter input and can distribute one or two full satellite positions along with terrestrial signals simultaneously.

### Advantages of WIDEBAND Optical Transmitters

- Dual DC-in connector for redundant power supply, ensuring **continuous service**
- **AGC on all coaxial inputs** for maximum operational stability
- Dedicated lasers for each H, V, and TV signal for **optimal signal quality**
- Status LEDs for each input for **quick visual diagnostics**

### Key Features of WIDEBAND Optical Receivers

- Extremely **compact** design
- Integrated AGC for maximum **RF output stability**
- Multi-standard receiver (**dSCR/SKY Q/Legacy**) for maximum flexibility
- **Status LEDs** for each output for quick visual diagnostics
- **Extended optical budget** (-5 dBm to -16 dBm), supporting up to 1 x 64 optical split
- Dedicated optical wavelength for each SAT polarity and TV band, ensuring **optimal RF signal quality**



OPT-TX WB2

OPT-TX WB1

OPT-RX WB2 SCD2

OPT-RX WB2 HV

OPT-RX WB1 SCD2

OPT-RX WB1 HV

ITEM	CODE	DESCRIPTION
OPT-TX WB1	270901	Wideband optical transmitter for <b>1 satellite + TV</b>
OPT-RX WB1 SCD2	270902	Wideband optical receiver for 1 satellite. <b>2 x SCR/dCSS/dSCR/Legacy + TV outputs</b>
OPT-RX WB1 HV	270903	Wideband optical receiver for 1 satellite. <b>Vertical, Horizontal wideband outputs + independent TV</b>
OPT-TX WB2	270904	Wideband optical transmitter for <b>2 satellites + TV</b>
OPT-RX WB2 SCD2	270906	Wideband optical receiver for 2 satellites. <b>2 x SCR/dCSS/dSCR/Legacy + TV outputs</b>
OPT-RX WB2 HV	270905	Wideband optical receiver for 2 satellites. <b>Vertical, Horizontal wideband outputs for each SAT + independent TV</b>
GPON RX TV ACT	287852	Passive Optical Network Terminal for digital TV signal distribution using the PON network. The receiver features an integrated WDM diplexer to separate the TV band from the data.

## Digital Terrestrial and IF-IF Satellite distribution

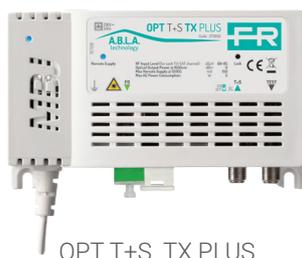
The **OPT MBJ Series optical transmitters and receivers** can combine Band 3, UHF, and SAT (IF-IF) signals and distribute them over fiber optic infrastructure, making them ideal for **small to medium-sized installations**. Equipped with A.B.L.A. technology in the transmitters and **Automatic Gain Control (AGC)** in the receivers, they ensure optimal signal quality.

### Key Features of OPT MBJ Series

- **“Plug & Play”**: no adjustments required
- **A.B.L.A. technology**: in transmitters, maintains a constant optical output level when input TV and SAT RF levels are between 60 dB $\mu$ V and 85 dB $\mu$ V
- **Automatic Gain Control (AGC)**: in OPT RX receivers, ensures a stable RF output within the operating optical signal range
- Non-propagating, flame-retardant **ABS protective shell (Class V0)**
- **Very low power consumption**
- **A.B.L.A. circuit operation LEDs** for immediate diagnosis of input RF levels in the transmitters
- **Diagnostic LEDs**: indicate proper optical signal and RF presence in OPT RX receivers
- **Flexible mounting options**: wall or DIN rail



OPT 3US TX



OPT T+S TX PLUS



OPT RX

ITEM	CODE	DESCRIPTION
<b>OPT 3US TX</b>	270657	Plug&Play optical transmitter equipped with 3 separate independent inputs: VHF, UHF and SAT (IF-IF). SC/APC optical output and RF Test output. Optical power 5dBm@1550nm. <b>Up to 1 x 32 optical splits</b> when used with OPT-RX receiver. Remote power enable on UHF input.
<b>OPT T+S TX PLUS</b>	270656	Plug&Play optical transmitter equipped with 1 TV/SAT (IF-IF) mixed input. SC/APC optical output and RF Test output. Very high optical power output 9dBm@1550nm. <b>Up to 1 x 64 optical splits</b> when used with OPT-RX receiver. Remote power enable on TV+SAT input.
<b>OPT RX</b>	270655	Plug&Play optical receiver equipped with SC/APC optical input (from 0dBm to -14dBm extended optical input range). Automatic Gain Control for TV/SAT RF output level stabilization. It can be also used as alternative of OPT RX TV (270696). <b>Diagnostic LED for the optical and RF signals.</b>

# ACTIVE DEVICES

## Digital Terrestrial Distribution

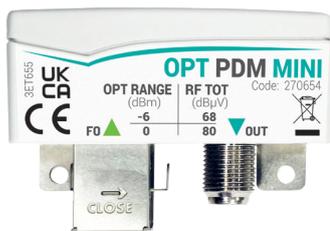
Fracarro's **OPT-PDM Series** miniaturized passive receivers revolutionize FTTH (Fiber to the Home) systems. Ideal for single-dwelling or small installations, their compact size allows for direct installation behind the TV.

### Key points of OPT PDM

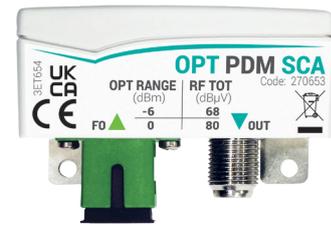
- Extremely compact: 55 x 18 x 38mm
- Passive: **no power supply required**
- Fullband: distributes TV and SAT signals (IF-IF)
- **Electrostatic protection:** electrically isolated from the distribution network.

### Advantages of Fiber Optic

- **Future-proof:** supports technological evolution
- **LTE/5G immune:** protected from mobile network interferences
- **Longer lifespan:** fiber-optic infrastructure outlasts coaxial installations

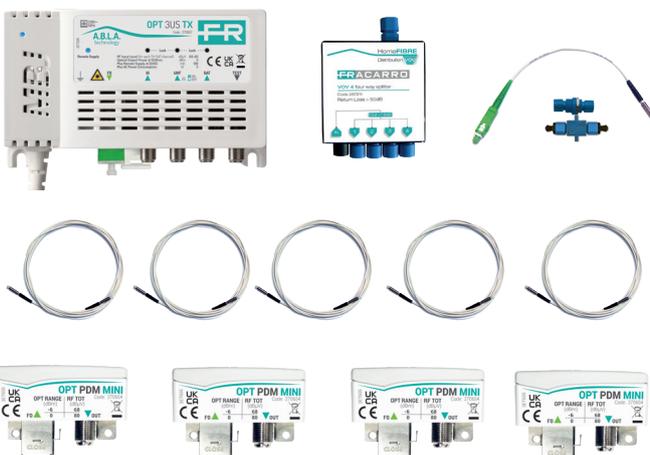


OPT-PDM-MINI



OPT-PDM-SCA

ITEM	CODE	OPTICAL CONNECTOR	WAVELENGTH nm	OUTPUT RF MHz	DIMENSIONS nm	PACKAGE pcs
OPT-PDM-MINI	270654	1 MINI	1270-1610	88-2350	55x18x38	4
OPT-PDM-SCA	270653	1 SC/APC	1270-1610	88-2350	55x18x38	4



### K OPT-PDM-MINI code 270700

The kit contains:

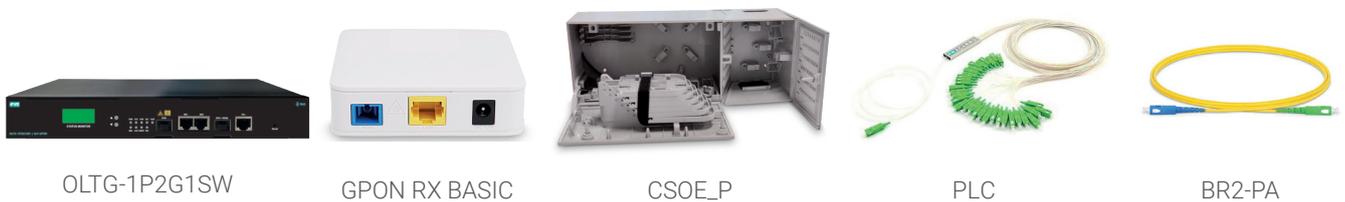
- 1x optical transmitter OPT 3US TX (270657)
- 1x miniaturized VOV4 splitter (287211)
- 5x MINI 10m optical patch cords (287221)
- 1x MINI-SC/APC PR ADAPT adaptor (287226)
- 4x OPT-PDM-MINI miniaturized passive optical receivers (270654)

# VIDEO INTERCOM OVER FTTH

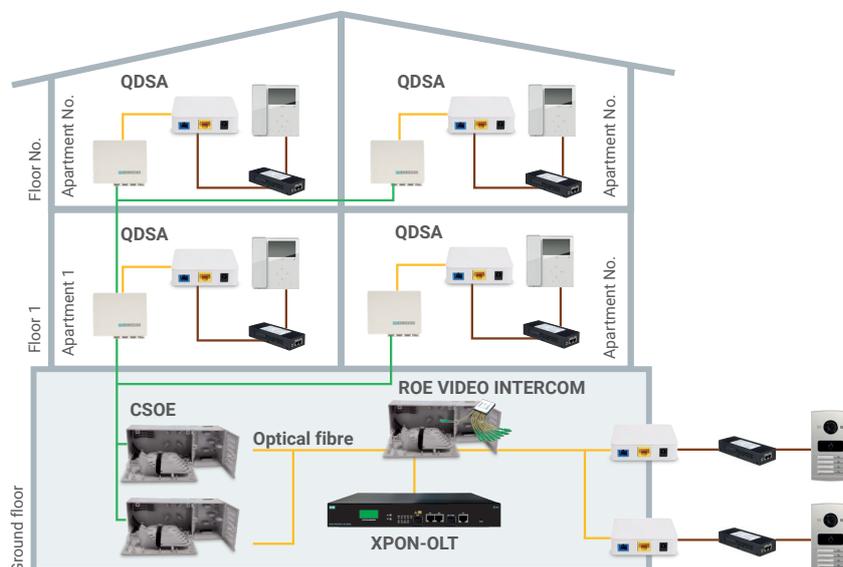
## GPON solution for video intercom

Thanks to the capabilities of GPON active devices, Fracarro has developed an innovative solution to integrate video intercom systems into FTTH fiber optic networks, providing significant advantages in terms of system simplification and cost reduction. The solution allows for the connection of **up to 128 devices** (video intercoms and external units) and enables the management of additional services:

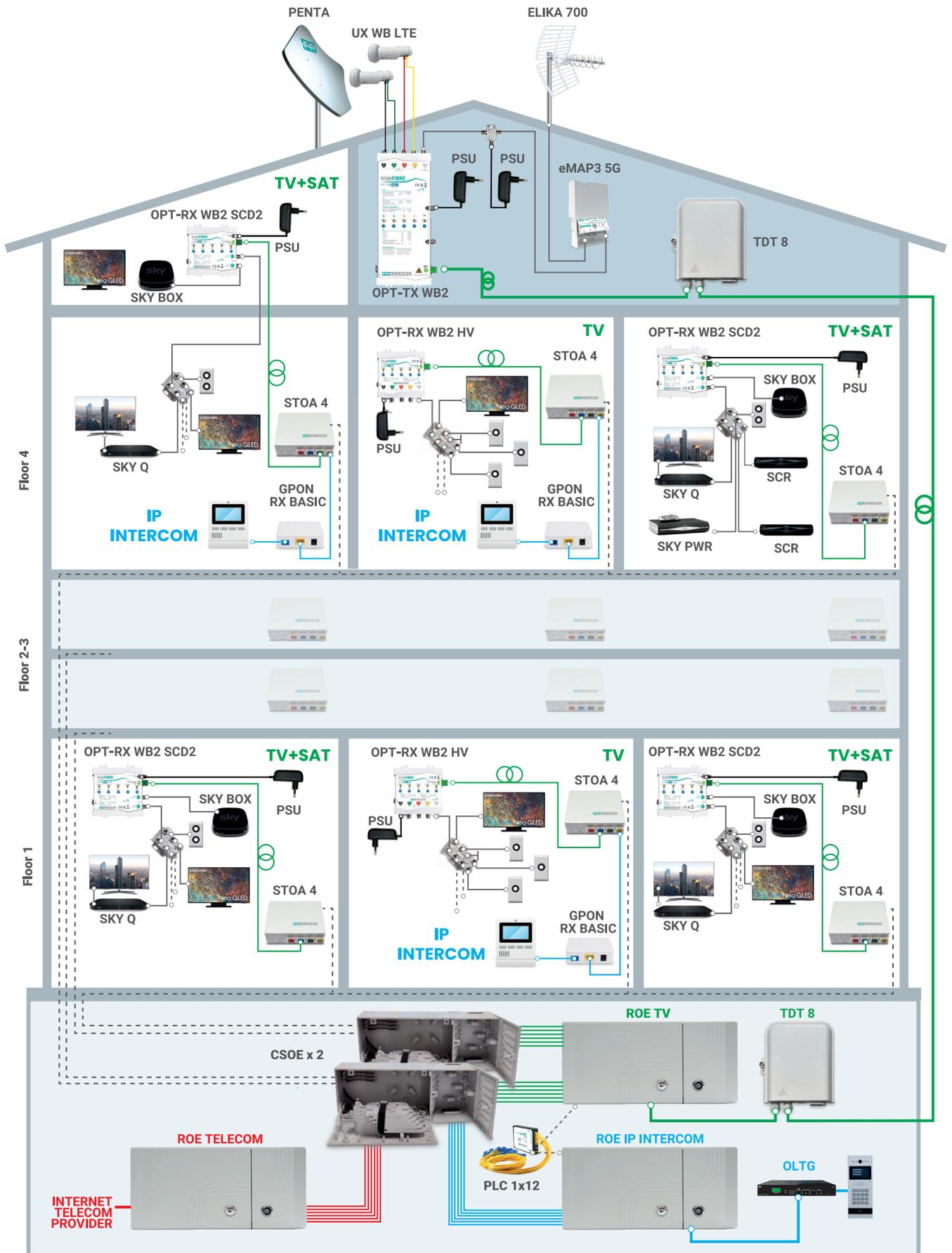
- Up to 30 cameras for CCTV video surveillance
- Access control for common areas
- Monitoring of special systems: photovoltaic systems, air conditioning and heating systems, emergency lights, home automation, Building Management Systems and so on.



ITEM	CODE	DESCRIPTION
<b>OLTG-1P2G1SW</b>	287858	1-port PON OLT for managing data distribution over 9/125 single-mode optical fiber
<b>OLTG-2P2G1SW</b>	287857	2-ports PON OLT for managing data distribution over 9/125 single-mode optical fiber
<b>GPON RX BASIC</b>	287616	ONT network optical receiver for data reception via optical fiber. Includes PoE Injector
<b>CSOE_P</b>	287567	IP54 degrees protection Building Main Optical Cabinet for FTTH fiber optic networks.
<b>PLC 1x32 MINI</b>	287582	Miniaturized 32-way PLC splitter for building optical splitting box, utilizing planar waveguide technology that ensures very low insertion loss.
<b>BR2-PA</b>	289359	2-meter single-mode optical fiber patch cord with SC/APC to SC/PC connectors
<b>BR2-AA</b>	289360	2-meter single-mode optical fiber patch cord with SC/APC connectors



# SCHEMATIC DIAGRAM



# PROFESSIONAL FIBER FUSION SPLICER

## FST-V6S Professional Fusion Splicer

The **FST-V6S splicer** (code 287008) significantly reduces splicing and heating times. Its 6-motor core alignment and advanced contour inspection technology ensure precise splicing and accurate loss estimation.

All functions are accessible via a **5" LCD touchscreen**, and the fully automated splicing process optimizes installation efficiency.



## Features

- Automated splicing process with chipset to minimize optical fusion loss
- High-precision electrodes with **Digital Analysis Core Alignment System** for arc fusion control
- **6-motor** active core alignment
- **5" high-resolution touchscreen display**
- Supports a wide range of optical fibers: SM, MM, DS, NZDS
- User-friendly graphical interface
- Optical zoom: **fiber magnification up to 500x**



# ACCESSORIES

## Optical Fiber Cleaning Tools

The kit is designed for cleaning 9/125  $\mu\text{m}$  single-mode fibers and SC/APC, SC/PC, and LC connectors.

ITEM	CODE	DESCRIPTION
CLEANING KIT	287536	Optical cleaning kit



# INSTRUMENTS

## Optical Meters

Fracarro also offers a **range of multimeters** to ensure proper installation of fiber optic systems.



OPTmet+RJ45test

OPT METER

ITEM	CODE	DESCRIPTION
<b>OPTmet+RJ45test</b>	287568	Portable multifunction optical power meter with Visual Fault Locator and electrical continuity testing functionality for RJ-45 cables.
<b>OPT METER</b>	287537	Optical multimeter for various wavelengths, with an integrated source for verifying multiservice systems and fiber optic distributions.

## Certified test equipment

Fracarro's portfolio of measurement instruments is complemented by a range of certified optical test equipment, consisting of a source and a meter with AWD functionality, which automatically detects the optical wavelength in use between the two devices.



CERT-OPT-METER

CERT-OPT-SOURCE

ITEM	CODE	DESCRIPTION
<b>CERT-OPT-SOURCE</b>	287589	Certified optical source designed for verifying and certifying FTTH multiservice installations and various fiber optic distributions. Equipped with two outputs, each with two light sources, it manages a total of four wavelengths in a single device.
<b>CERT-OPT-METER</b>	287590	Power meter designed for verifying and certifying FTTH multiservice installations and various fiber optic distributions. Features selectable wavelengths (850, 1300, 1310, 1490, 1550, 1625 nm) and can measure absolute or relative optical power.

## OTDR (Optical Time Domain Reflectometer)

Fracarro's **OTDR 62** is an essential tool for fiber optic system technicians. It accurately scans fiber optic networks, detecting faults, breaks, and anomalies, and also functions as an optical multimeter for precise end-to-end analysis.

In FTTH networks, this instrument can be used to verify TDT–CSOE and CSOE–STOA connections, significantly reducing system downtime.



Launch SCA...



OTDR 62

ITEM	CODE	DESCRIPTION	
<b>OTDR 62</b>	287872	OTDR for troubleshooting SM/MM systems, also usable as a multimeter and for basic LAN analysis (with included accessories).	<b>NEW</b>
<b>Launch SCA 150</b>	287898	150 m <b>Single-Mode</b> Launch Fiber for OTDR, G657A2 OS2 SC/APC	<b>NEW</b>
<b>Launch SCA 500</b>	287899	500 m <b>Single-Mode</b> Launch Fiber for OTDR, G657A2 OS2 SC/APC	<b>NEW</b>
<b>Launch LCU 150</b>	287897	150 m <b>Multi-Mode</b> Launch Fiber for OTDR, OM4 SC-LC/SC-UPC	<b>NEW</b>

## Fracarro, always by your side.

With over 20 years of experience in fiber optics, **Fracarro** is the ideal partner for the design, deployment, and management of GPON solutions. Our expert technicians support professionals at every stage of the installation process, providing a comprehensive range of services.





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