

TDS 80A RAL 7016, bulk pack

Art. Number 120510



TRIAX TD Dishes The difference is clear

Manufactured and tested to the highest standards of precision and quality, TRIAX's easy-to-install dishes offer outstanding performance, durability and reliability.

TDS: Steel TDA: Aluminium

- Unrivalled build quality, whether Steel or Aluminium
 - Hot-dip galvanized steel OR long lasting Aluminium - for extra corrosion protection
 - TRIAX's unique cable protection system
 - Every part, every accessory is weatherproofed
 - 2 years corrosion warranty
 - 5 years functionality warranty
- Outstanding performance
 - High gain for an exceptional signal
- Quick and easy installation
 - One-click mounting system
 - Self-locking screw & nuts
- Logistic friendly
 - Single or Bulk packaging, according to customer needs

TRIAX is your reliable partner, with comprehensive service and support.

[Click here](#) to see our guide on how to install TRIAX satellite dishes.

Technical Specifications

ORDER INFORMATION

EAN Number 5702661205101



TRIAx

connecting the future

Technical Specifications

CHARACTERISTICS

Elevation range °	0...90 °
F/D ratio	0,62
G/T LNB 0.7 dB/K	17.3 dB/K
Offset angle °	25.6 °
X-polarisation dB	≤ -27 dB

FREQUENCY RANGE

Frequency range GHz	10.7...12.75 GHz
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GAIN

Gain @ 11.7 GHz dBi	37,5 dBi
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MECHANICAL

Arm Colour	Raw
Beamwidth °	2.6 °
Colour	RAL 7016 - Anthracite grey
Packaging Depth m	0.790 m
Packaging Height m	0.011 m
Total Weight kg	4.515 kg
Packaging Width m	0.710 m
Height (cm) cm	79 cm
LNB holder	40
Main material	Galvanized steel (hot-dip)
Mast bracket diameter mm	32...60 mm
Net Weight kg	4.420 kg
Packing QTY	200
Reflector type	Offset
Tara Weight kg	0.095 kg
Packaging Volume m3	0.006 m3
Width (cm) cm	71 cm
Windload @42 m/s N	619 N

Data sheet

Aerials

LTE QR 12 T - 14dBi Gain

Item number 108170



Specifications

EAN Number	5702661081705
Channels	21-60
Band	T
Frequency range	470-790 MHz
Elements	12
Gain	14dBi dB
@ 821 MHz (LTE D6)	<2.14dBi dBi
Front to back ratio - horizontal	>20dB dB
Impedance	75 Ω
Beamwidth	+/-18 °
Length (mm)	1010 mm
Width (mm)	555 mm
Weight (kg)	1,25 kg
Individual brown box	Scantainer
Packing QTY	65 pcs.
Material	Al
Connector type	F-female
Construction type	Quick Lock Reflector
Bracketry	Rear Mount
Packaging Depth	0,000 m
Packaging Height	0,000 m
Total Weight	1,520 kg
Packaging Width	0,000 m
Packaging Volume	0,000 m3
Net Weight	1,520 kg

Specifications

Tara Weight	0,000 kg
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- Optical to RF convertor (Satellite and FM,DAB,DTT)
- Quad and Quatro versions available
- Automatic Gain Control (AGC)
- Powered by STB or PSU
- Terrestrial signals overlaid onto each output (Quad only)
- Frequency Morphing Technology (FMT) for Worldwide use



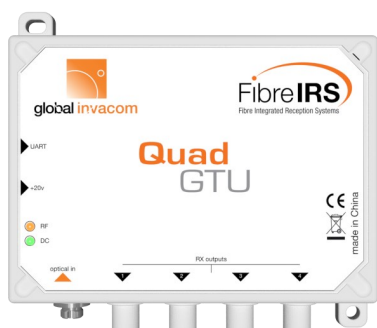
The FibreIRS GTU converts optical power to RF power (4 satellite bands and FM,DAB,DTT). All units have built in AGC which allows a wide dynamic range of optical powers without affecting output power and quality. Two LED indicators allow the user to monitor the status of the unit.

Two versions available —

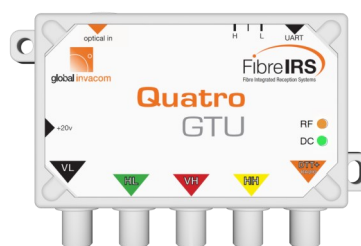
Quad for use directly with a STB/faceplate.

Quatro for use with a multiswitch as it has dedicated outputs for each of the satellite bands (Vertical Low, Horizontal Low, Vertical High, Horizontal High) and terrestrial.

Both versions can be powered via the satellite outputs and used with either the Optical LNB or the ODU32.



Quad version



Quatro version

Technical Specifications

Product Part No.

Quad GTU	D000187
Quatro GTU	D000188

Satellite (Electrical)

Parameter	Min	Max	Notes
RF frequency range (MHz)	950	2150	
Output impedance	75Ω		
Return loss	10dB		
Gain variation across band		5dB	
Nominal output level (Quad)	75dBμV *		For 30 transponders
Nominal output level (Quatro)	79dBμV *		For 30 transponders
Terrestrial rejection	35dB		

* additional variation can occur due to satellite transmitted signal levels.

Fibre Integrated Reception System

DTT, DAB & FM (Electrical)

Parameter	Min	Max	Notes
RF frequency range			
DTT	470-790MHz		
DAB	174-240MHz		
FM	88-108MHz		
Nominal impedance	75Ω		
Return loss	10dB		
Nominal DTT output Quad (Quatro)	71dBμV (78dBμV)		For 6 multiplexes
Gain variation across band		5dB	
950-2150MHz rejection	35dB		

FM,DAB,DTT & Satellite (Optical)

Optical wavelength	1100nm to 1650nm		
Optical input power (typical)	-12dBm [#]	-3dBm	[#] For systems with 19.2dB optical budget

Control signals (Quad only)

Vertical select voltage	10.5V	14.5V	13V nominal
Horizontal select voltage	15.5V	19V	18V nominal
Low / High band	0/22KHz tone		

DC specification

Input voltage range	10.5V to 21V	For both direct or line powering
Current consumption (Quad)	235mA max	@ 10.5V for RX1 and Rx2 only (line powered)
Current consumption (Quad)	235mA max	@ 10.5V for RX3 and Rx4 only (line powered)
Total Current consumption (Quad)	470mA max	@ 10.5V (direct power)
Current consumption (Quatro)	490mA max	@ 10.5V

Connectors

Quad output	F x 4
Quatro output	F x 5
Power supply	2.1mm Jack
Optical input	FC/PC

Environmental Specification

Operating temperature	-15°C to +50°C
Storage temperature	-20°C to +70°C

Optical cabling

Fibre type	Single mode
Standard	GI - approved G657a

Dimensions

Size (W x H x D)	128.7mm x 116.5mm x 27mm (Quad) 120.8mm x 80.1mm x 26.3mm (Quatro)
Weight	325g (Quad) 175g (Quatro)

Software (GUI) for Frequency Morphing

Supported operating systems	WinXP, Win7, Linux, Mac OS
Interface	UART

**Global Invacom will only support systems that are installed using
FibreIRS™ approved fibre cabling & system components**

Note: Specifications subject to change without notice

- FibreIRS FC/PC optical input
- Fully compatible with GI optical LNB, ODU32 & ODU32 (1550)
- 2 x FC/PC optical outputs
- Space saving design
- Small form factor



Introducing the new O2O (Optical to Optical) convertor from Global Invacom. Fully compatible with all the current FibreIRS headend equipment and designed for future compatibility. Replaces the functionality of the O2E and ODU32 in one compact unit.

Technical Specifications

Product Part No.

O2O	D000411
O2O 1550	D000411-1550

FM.DAB,DTT & Satellite (Optical)

Optical wavelength (Input)	1100nm to 1650nm		
Optical input power	-12dBm	-3dBm	
Optical output power	+7dBm		
Return Loss	20dB		

RF Signal

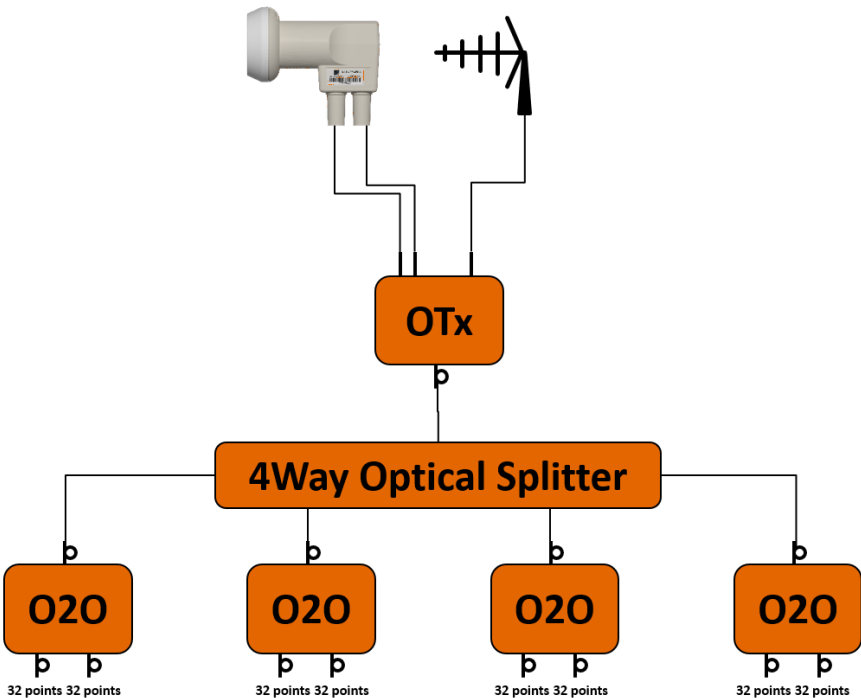
Parameter	Min	Max	Notes
RF frequency range (MHz)	88	5450	
Gain variation across band		5dB *	
Gain ripple across 30Mhz	1dB		
* additional variation can occur due to satellite transmitted signal levels.			

DC specification		
Input voltage	20V	
Current consumption	150mA Max	

Dimensions (W x H x D)	
Unit only	TBC
Weight	TBC

Connectors	
Input	FC/PC
Output	2 x FC/PC
Power supply	F connector

Environmental Specification	
Operating temperature	-10°C to +50°C
Storage temperature	-40°C to +70°C



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FibreIRS™ approved fibre cabling & system components

Note: Specifications subject to change without notice

OTX 1310, SAT FO Headend Kit

Art. Number 307785



The **OTX 1310 SAT Fibre Optic Headend Kit** consists of the Wideband LNB TWB 40 and the OTX 1310 SAT FO Transmitter including the wall plug PSU. This headend enables to distribute the vertical and horizontal SAT widebands combined with terrestrial broadcast channels over a fibre optic (FO) network to a large amount of buildings and homes.

The TWB 40 should be installed on a TRIAX dish with diameter 85...120cm. The OTX transmitter unit can be mounted in- or out-door. A special bracket for mount on the mast can be ordered as OTX-MB (307789).

The OTX Transmitter has two coaxial RF inputs for connecting with the vertical and horizontal SAT-IF signal cables coming from the Wideband LNB. The LNB is voltage supplied from the V- port (+12V) and the H-port (+20V). Please note: the LNB TWB 40 uses the V-port for DC supply only. The OTX Transmitter unit itself consists of the frequency stacker for the SAT-IF H and V bands and the TER band and the laser transmitter. The OTX FO Headend is able to drive a PON (Passive Optical Network) with optical split up to 32 outlines where the TRIAX optical re-converters TVQ 06, TVC 06 and TOM 08 M/S can be connected directly.

OTX 1310 designed with 1310nm laser transmitter is the most cost efficiently variant within the OTX family and supports the standard applications as described above. The optical network can be significantly expanded by using of active TRIAX FO Repeaters OTO 32 (307787).

Technical Specifications

ORDER INFORMATION

EAN Number 5702663077850

OPTICAL CHARACTERISTICS

Optical output level (nom. @ 25 °C) dBm	8 dBm
Optical budget for PON (max.) dB	19 dB
Optical splitting in PON (max.)	32
Optical cabletype	Single-mode

CHARACTERISTICS

LNB type	Coaxial Wideband
Wavelength nm	1310 nm

Technical Specifications

Laser class	1M
Reception frequency range GHz	10.7 - 12.75 GHz
Reception polarization	horizontal & vertical
L.O. frequency, vertical GHz	10,41 GHz
L.O. frequency, horizontal GHz	10,41 GHz
TER input level range DTT @ 6 transponders	70 dBμV
LNB feed voltage (through SAT-IF input) VDC	via V port +12 VDC

FREQUENCY RANGE

Frequency range SAT MHz	290...2340 MHz
Frequency range TER MHz	87,5...694 MHz

ELECTRICAL

Impedance Ω	75 Ω
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OPERATIONAL

TER feed voltage (through TER input) VDC	12 VDC
AC Supply voltage VAC	100...240 VAC
DC Operating voltage VDC	20 VDC
DC Current consumption mA	(incl. WB LNB) 350 mA
PSU/adaptor INFO	Incl. Euro Plug (CEE 7/17)
PSU/adaptor Art number	incl. TPS323-20Vdc/1.2A (307657)
Weather Proof Rating	IP 54 (LNB and OTX unit)

CONNECTORS

Connector IN	F-female "H" + F-female "V"
Connector TV	F-female "TER"
Connector DC	F-female "+20V"
Connector Optical	FC/PC "OUT"

MECHANICAL

Packing QTY	1
Packaging Height m	11.000 m
Packaging Width m	0.175 m
Packaging Depth m	0.170 m
Packaging Volume m3	0.327 m3
Net Weight kg	0.690 kg
Tara Weight kg	0.210 kg
Total Weight kg	0.900 kg