

FibreIRS 2SATODU16

Fibre Integrated Reception System

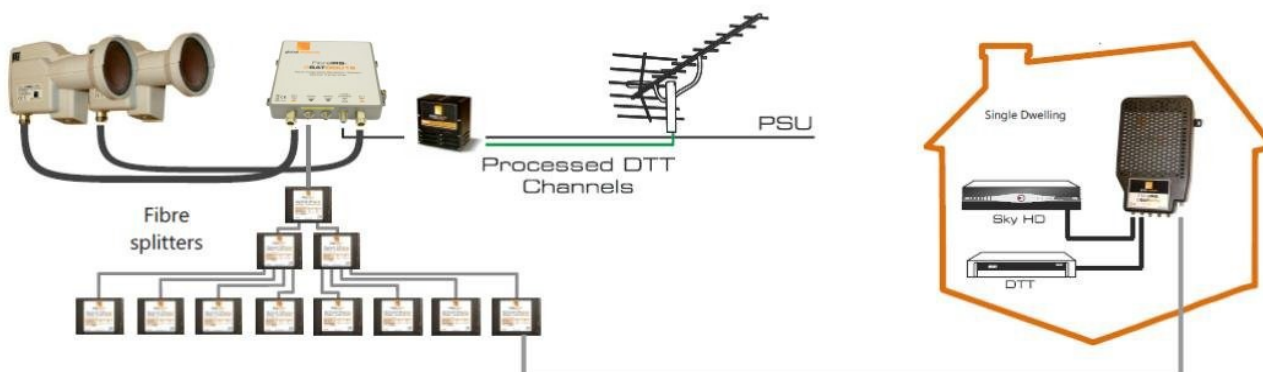


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- 2 Satellites distributed via a single fibre
- Outputs 2 satellites for distribution through 2 x 16 PON
- Fully weatherproof (IP65)



Fully weatherproof, the 2SATODU16 is designed for mounting at the antenna location. It accepts & combines signals from two wholeband LNB's & terrestrial antennas (DTT/DAB/FM). The combined signal is optically frequency modulated on to a laser inside the 2SATODU16 & then equally split to 2 optical outputs (FC/PC) for distribution through a Passive Optical Network (PON) of FibreIRS optical splitters. Each output of the 2SATODU16 can feed a PON of 16 points. Different FibreIRS GTU's can be connected at any point (Quad and Quatro available). Maximum distance 1km



Technical Specifications

Product Part No.

FibreIRS 2SATODU16 F102046.

Satellite 1 + 2 (Electrical)			
Parameter	Min	Max	Notes
RF frequency range (MHz)	0.95-3.0GHz		
Vertical polarisation (V pol)	3.4-5.45GHz		
Horizontal polarisation (H pol)			
Nominal impedance	50Ω		
Return loss	9dB		
Gain variation across : V pol		4dB	
: H pol		7dB	H pol has a 3dB upward slope
AGC adjustment range	15dB		
Noise figure @ max gain		15dB	
217-862MHz rejection	20dB		

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DTT, DAB and FM (Electrical)			
RF frequency range			
DTT	470-862MHz		
DAB	174-230MHz		
FM	88-108MHz		
Nominal impedance	75Ω		
Return loss	10dB		
Input power range	67dBμv 97dBμv		DAB power levels need to be set 12dB below DTT FM power level needs to be same as DTT
Gain variation across band		4dB	
Recommended DTT input	70dBμv		
Gain variation across band		4dB	
Gain ripple across 8MHz in DTT		.5dB	
AGC adjustment range	30dB		
Noise figure @ max gain		10dB	
950-2150MHz rejection	15dB		

FM,DAB,DTT Satellite 1+2 (Optical)			
Parameter	Min	Max	Notes
Laser optical wavelength (Sat 1)	1310nm+/- 20		
Laser optical wavelength (Sat 2)	1550nm+/-20		
Laser optical wavelength (DTT)	1310nm+/-20		
Laser optical power (Sat1 + DTT)	7.0dBm		Typical
Laser optical power (Sat2)	7.0dBm		Typical

DC specification		
Power supply voltage	20v+/-0.5	Supplied on terrestrial port
LNB's supply voltage	6.2V+/-0.2	Fed through satellite inputs
Current consumption	<600mA	Including Wholeband LNB's

Connectors	
Output	Fibre optic FC/UPC
Satellite inputs	N
DTT/DAB/FM	F

Environmental Specification	
Operating temperature	-10 to 50°C
Storage temperature	-30 to 60°C

Optical cabling	
Fibre type	Single mode
Standard	GI - approved G657a

Global Invacom will only support systems that are installed using

GI - approved fibre cabling & system components

Note: Specifications subject to change without notice

www.globalinvacom.com www.gionlineshop.com
Email: sales@globalinvacom.com