

# FibreIRS GTU

Fibre Integrated Reception System



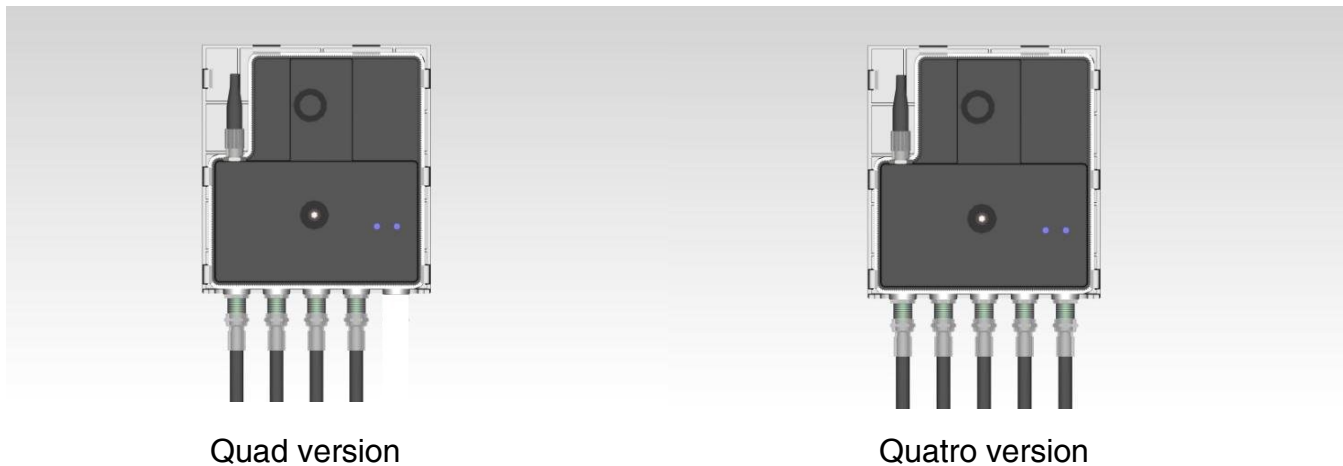
global **invacom**  
completing the picture

- Optical to RF convertor (FM,DAB,DTT and Satellite)
- Quad and Quatro versions available
- Automatic Gain Control (AGC)
- Powered by receiver or PSU
- Terrestrial overlaid onto each output (Quad only)



The FibreIRS GTU converts optical power to RF power (FM,DAB,DTT and 4 satellite polarities). The FibreIRS GTU has 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 observe the status of the unit.

Two versions available — Quad for use directly with a receiver/faceplate. Quatro for use with a multiswitch as it has dedicated outputs for each of the satellite polarities 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	F102029
Quatro GTU	F102030

Satellite (Electrical)			
Parameter	Min	Max	Notes
RF frequency range (MHz)	950	2150	
Output impedance	75Ω		
Return loss	10dB		
Gain variation across band		7dB	
Nominal output level (Quad)	70dBμV *		For 30 transponders
Nominal output level (Quatro)	75dBμV *		For 30 transponders
Terrestrial rejection	30dB		

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



DTT, DAB and FM (Electrical)			
RF frequency range			
DTT	470-862MHz		
DAB	174-240MHz		
FM	88-108MHz		
Nominal impedance	75Ω		
Return loss	10dB		
Nominal DTT output	68dBμV		For 6 multiplexes
Gain variation across band	5dB		
Noise figure @ max gain	6dB		
950-2150MHz rejection	20dB		

FM.DAB,DTT and Satellite (Optical)			
Optical wavelength	1100nm to 1650nm		
Optical input power	-15dBm	0dBm	Subject to optical budget limitation of system deployed

Control signals (Quad only)			
Vertical select voltage	11V	14.5V	13V nominal
Horizontal select voltage	15.5V	19V	18V nominal
Low / High band	0/22KHz tone		

DC specification		
Input voltage range	10V to 20V	For both direct or line powering
Current consumption (Quad)	220mA max	@ 10V
Current consumption (Quatro)	210mA max	@ 10V

Connectors	
Quad output	F x 4
Quatro output	F x 5
Power supply	2.1mm Jack

Environmental Specification	
Operating temperature	0 to 40°C
Storage temperature	-20 to 70°C

Dimensions	
Size	109 x 136 x 50 mm (no plastics)
Weight	800g

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