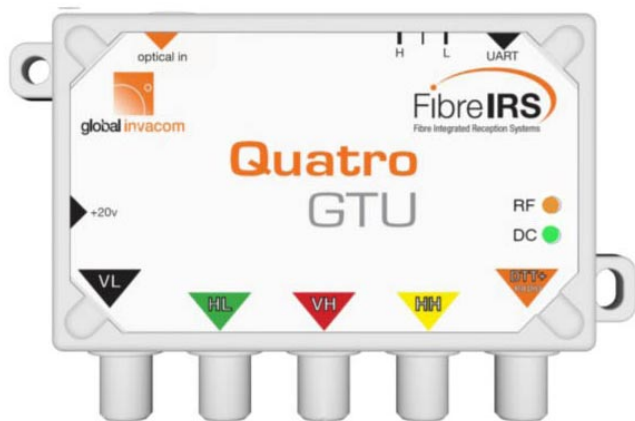


OPT GTU-D000188



INVACOM QUATRO GTU MK3

Manufacturer: [GLOBAL INVACOM](#)

Description

The FibreIRS GTU converts optical power to RF power (FM,DAB,DTT and 4 satellite bands)

- * 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

Product Part No.	
Quad GTU	D000187
Quatro GTU	D000188

Technical Specifications

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)	75dBμV *		For 30 transponders
Terrestrial rejection	35dB		
* additional variation can occur due to satellite transmitted signal levels.			
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	15dB		
Nominal DTT output Quad (Quatro)	71dBμV (71dBμV)		For 6 multiplexes
Gain variation across band		5dB	
950-2150kHz 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			0/20kHz tone
DC specification			
Input voltage range	10.5V to 21V		For both direct or line powering
Current consumption (Quad)	295mA max		@ 10.5V for RX1 and RX2 only (line powered)
Current consumption (Quatro)	295mA 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		Environmental Specification	
Quad output	F x 4	Operating temperature	-15°C to +50°C
Quatro output	F x 5	Storage temperature	-20°C to +70°C
Power supply	2.1mm Jack	Optical cabling	
Optical input	FC/PC	Fibre type	Single mode
		Standard	GI - approved G657a
Dimensions			
Size (W x H x D)	128.7mm x 116.5mm x 27mm (Quad)		
	123.8mm x 80.7mm x 26.3mm (Quatro)		
Weight	325g (Quad) 175g (Quatro)		
Software (OS) for Frequency Morphing			
Supported operating systems	WinXP, Win7, Linux, Mac OS		
Interface	UART		