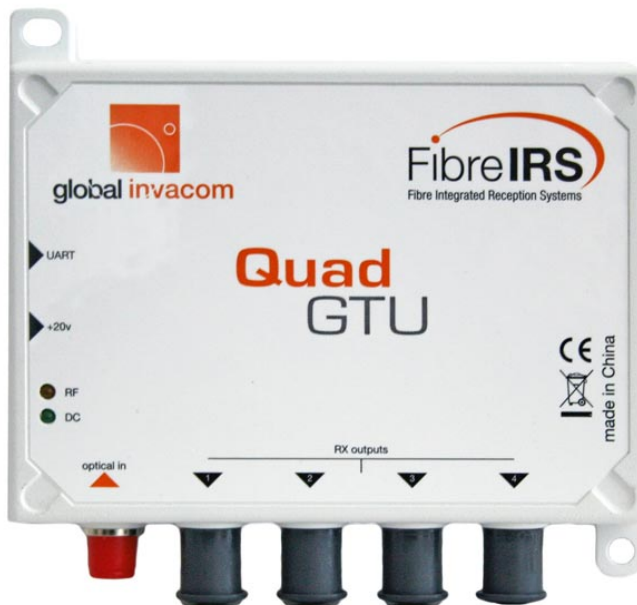


OPT GTU-D000187



INVACOM QUAD 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							
Technical Specifications		<table><tr><td>Product Part No.</td><td></td></tr><tr><td>Quad GTU</td><td>D000187</td></tr><tr><td>Quatro GTU</td><td>D000188</td></tr></table>		Product Part No.		Quad GTU	D000187	Quatro GTU	D000188
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)	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							
950-2150MHz 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		0/20KHz 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)								
	120.8mm x 90.1mm x 26.3mm (Quatro)								
Weight	325g (Quad) 175g (Quatro)								
Software (OS) for Frequency Morphing									
Supported operating systems	WinXP, Win7, Linux, Mac OS								
Interface	UART								