



Fibre Integrated Reception System

- 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.





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	7	'5Ω	
Return loss	10dB		
Gain variation across band		5dB	
Nominal output level (Quad)	75d	BμV *	For 30 transponders
Nominal output level (Quatro)	79d	BμV *	For 30 transponders
Terrestrial rejection	35dB		
* additional variation can occur due to satellite transmitted signal levels.			

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DTT, DAB & FM (Electrical)			
Parameter	Min	Max	Notes
RF frequency range			
DTT	470-7	90MHz	
DAB	174-240MHz		
FM	88-10	08MHz	
Nominal impedance	7:	5Ω	
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	0/22K	Hz 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 temperatu	-15°C to +50°C			
Storage temperature	-20°C to +70°C			
Optical cabling				
Fibre type	Single mode			

GI - approved G657a

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

Standard

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

FibrelRS™ approved fibre cabling & system components

Note: Specifications subject to change without notice

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