

FibreSQS Stacker

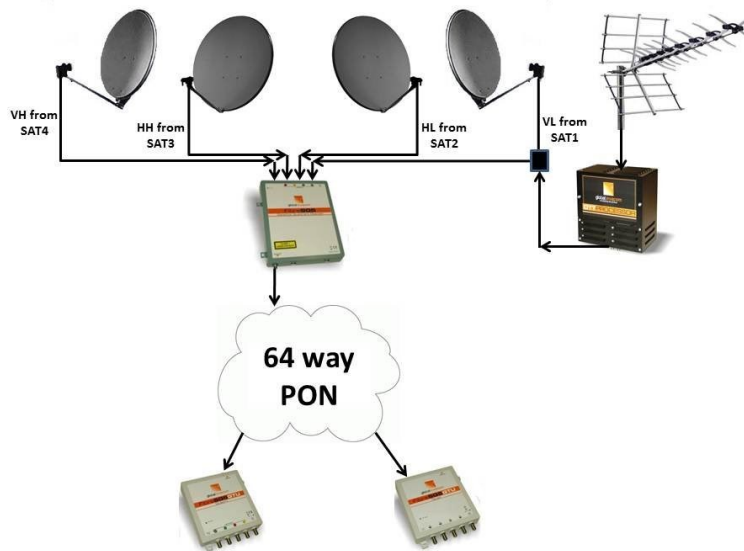
Fibre Integrated Reception System



- Converts 4 IF polarities to a single optical output.
- Outputs FibreIRS signals for distribution through 1 x 64 PON.
- Colour coded inputs for polarity matching.
- PSU included
- Distributes FM, DAB and DTT



The SQS stacker has been designed to combine 4 satellite polarities, DTT, FM and DAB onto a single optical output with a capability of feeding a Passive Optical Network (PON) of 64 points. This unit can be used with 4 polarities from 1 satellite or a mixture of 4 polarities from 4 satellites; inputs are colour coded with individual symbols to correctly identify polarity at Quatro destacker location. DTT, FM and DAB to be externally diplexed onto input band 1 (Black triangle). Different FibreSQS GTU's can be connected at any point (Quad and Quatro available).



Technical Specifications

Product Part No.	
FibreSQS stacker	F102031

Optical specification					
Parameter	Min	Typ	Max	Units	
Laser 1 wavelength		1550		nm	
Laser 2 wavelength		1530		nm	
Total optical output power	7	8		dBm	Combined 1530nm and 1550nm

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Satellite band RF specification					
Input RF frequency	950		2150	MHz	Band 1, Band 2, Band 3 and Band 4
Input impedance		75		Ohm	
Number of inputs		4			
Input return loss		10		dB	
Total input power			97	dB μ V	
Maximum input power per transponder			82	dB μ V	For 32 transponders
Output RF frequency	950-2150 (Band 1,Band 3) & 2550-3750 (Band 2 ,Band 4)			MHz	Stacked frequency bands

Terrestrial band RF specification					
RF frequency band	88		862	MHz	
Input impedance		75		Ohm	
Input return loss		10		dB	
Maximum input power	-5dB with reference to sat band 1 (black triangle)				
Noise figure			10		

DC specifications					
Power supply voltage	12	18	21	V	
Current consumption		≤500		mA	For 18V power supply (not including LNB)
LNB voltage	Available on each input			All inputs short circuit protected	

Connectors	
Output	Fibre optic FC/PC
RF inputs	F
DC connector	2.1mm socket

Environmental specification	
Operating Temperature	0 to +50°C
Storage Temperature	-10 to +50°C

Dimensions	
Size	140 x 145 x 33 mm
Weight	1kg

Optical cabling	
Fibre type	Single mode
Standard	GI - approved G657a

Laser Classification	
Class 1M	

Note: Specifications subject to change without notice

Global Invacom will only support systems that are installed using GI approved fibre cabling, splitters and accessories.

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