Modular System
Flexible & resilient L-band signal management

The system comprises a chassis which accommodates up to 16 RF modules. These are constructed from ETL's **high performance technology building blocks** and can be inserted while the shelf is in service giving excellent levels of flexibility and resilience.

Typical applications:
- Satellite operators, VSAT, teleports & broadcasters.
- High resilience RF distribution where single points of failure can be minimised.
- Redundancy applications for remote satellite teleports.
- Compensating for cable and other system losses with fixed gain or variable gain amplifiers and slope compensation - also offering dual redundant amplifiers for mission critical applications.
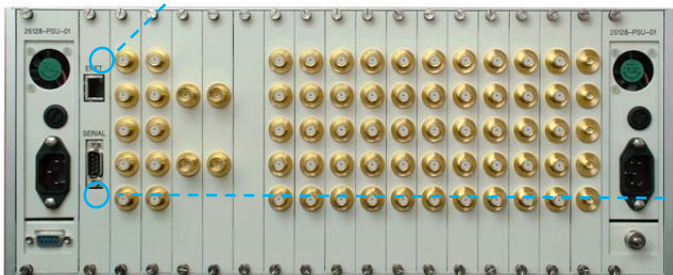
Compact & flexible chassis holding up to 16 RF modules, which can be mixed.

Resilience from dual redundant hot-swap power supplies, hot-swap RF modules & hot-swap CPU

Remote control & monitoring via RJ45 Ethernet port with SNMP & web browser interface

Local control & monitoring via LEDs on modules

Dry contact alarm port & serial communications for power supply status

Splitters & combiners 4-way & 8-way high performance equalized active splitters and combiners RF modules. With fixed / variable gain & slope options, optional dual redundant amplifiers & LNB powering

Line Amplifiers single or dual redundant, variable gain.

Redundancy switching 1:1 LNB or other redundancy is offered via RF detector driven switch modules.

Technical specifications and operating parameters

Chassis Specifications

Capacity	Up to 16 RF modules (8 module capacity for 8-way splitter & combiner modules)
Dimensions	4U high x 450mm deep x 19" wide
Weight	20 kg (fully populated)
Colour	White 00-E-55 semi-gloss (Front & Rear panels)
AC Power	85-264V AC (50/60Hz)
PSU	Dual redundant, hot-swap
CPU	Single, hot-swap
RF Module Cards	Single, hot-swap

Environmental

Operating temperature	0 to 45°C
Location	Indoor use only
Storage temperature	-20°C to +75°C
Humidity	20% - 90% non-condensing 20% - 90% non-condensing

System Control & Software

Local Control	Card LED display & buttons
Remote Connection	Via RS232/RS485, RJ45 Ethernet and web browser interface
SNMP Traps	For alarms & monitoring
Comms/Power Failure	Retains settings
Remote Control Software	Available
Web Browser Interface	Available for monitoring only

Physical

Input Connector	BNC, SMA, F-type BNC, SMA, F-type
Input Impedance	50Ω or 75Ω
Output Connector	BNC, SMA, F-type
Output Impedance	50Ω or 75Ω
Dimensions	4U high x 450mm deep x 19" wide
Weight	20 kg
Colour	White 00-E-55 semi-gloss

RF Module Options

Module Functionality Options	Operating Frequency L-band	Operating Frequency IF	Active	Passive	Gain Fixed	Gain Variable	Slope Compensation Fixed	Slope Compensation Variable	LNB Powering	Dual redundant amplifiers	RF level detection
4-way splitter modules	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓
8-way splitter modules	✓	✓	✓		✓	✓		✓	✓	✓	✓
4-way combiner modules	✓		✓		✓	✓	✓	✓		✓	
8-way combiner modules	✓		✓			✓		✓			
Amplifier modules	✓	✓			✓	✓	✓	✓		✓	✓
Redundancy switch modules	✓								✓		✓

Custom RF modules may be available - If you have a requirement which isn't listed in the RF module options table please contact us.

Note 1: The specification is subject to regular reviews and will be updated from time to time as part of our continuing product development and improved spec accuracy.
Note 2: Operation beyond the quoted limits stated above may cause instantaneous and permanent damage.

RoHS COMPLIANT

Pb Pb-Free

IMS INTERNATIONAL ISO 9001 certified

UKAS QUALITY MANAGEMENT 078