



**ViaLite<sup>®</sup>HD**

**The *ViaLiteHD*<sup>®</sup> System**  
Advanced Satcom Technology



[www.vialite.com](http://www.vialite.com)

# ViaLiteHD<sup>®</sup> product overview

ViaLiteHD<sup>®</sup> builds on the success of the ViaLite<sup>®</sup> product range, which has been in the market for over 10 years, and is now adopted by many major satellite service operators and broadcasters.

ViaLiteHD<sup>®</sup> is an innovative new design, that solves the latest operational problems that our customers are facing. The product range provides improved performance over conventional RF-over-Fibre products and numerous advanced management features, as well as innovative solutions to problems encountered with the transport, monitoring and control of RF signals.

The ViaLiteHD<sup>®</sup> range provides high performance and high reliability fibre optic communication for a range of cross-site, interfacility and remote antenna applications, such as connecting antennas with control rooms, network operation centres or broadcast headends.

ViaLiteHD<sup>®</sup> links are more than just an alternative to coaxial cabling. They provide high performance RF combined with advanced system management features.

The result is a cost effective, technically superior installation for the user.



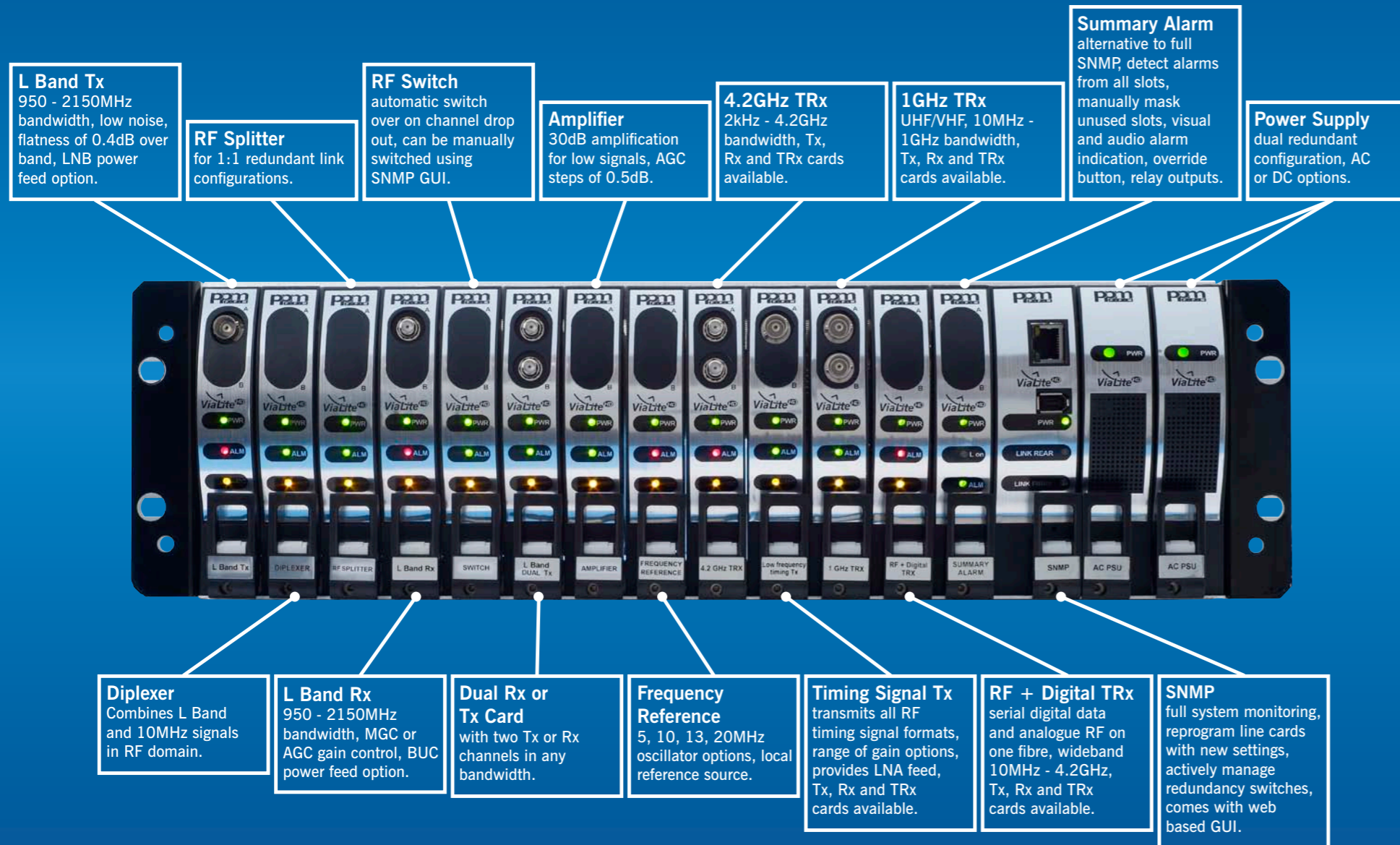
Also available in the ViaLiteHD<sup>®</sup> range are the small form factor OEM modules that allow System Integrators and Original Equipment Manufacturers an easy route to build RF/optical interfaces into their own design.

## Benefits

- ViaLiteHD<sup>®</sup> can help save time and cut costs
- Flexible, customised options available to suit specific customer requirements
- Long distance transmission without signal loss
- Remote (SNMP) monitoring capabilities allow more client control
- Interference immunity and electrical isolation
- Simple plug and play installation
- Lightweight and space saving optical cable increases signal density and bandwidth
- Allows point to multipoint distribution and service scalability
- A wide range of additional modules and accessories are available for greater flexibility and a tailored solution
- Standard 3 year warranty, optional extended warranties and lifetime service support agreements available
- UK designed and manufactured, global network of support offices.

## The system

The ViaLiteHD<sup>®</sup> system comprises up to 13 rack mounted cards plus an SNMP card, all of which plug into a 19" 3U chassis with dual power supplies. Alternatively, up to 3 cards can be fitted into a 1U high 19" chassis. For applications where a chassis is not required, standalone modules are available.



## ViaLite<sup>®</sup> and ViaLiteHD<sup>®</sup> comparison

Advanced features	ViaLite <sup>®</sup>	ViaLiteHD <sup>®</sup>
High Density RF fibre converter: number of channels per chassis	Up to 8	Up to 26
DUAL transmitter or receiver technology	✗	✓
Blind mate and hot swap functionality, allowing users to upgrade systems or change configuration without breaking optical or electrical connections	✗	✓
SNMP network control modules to monitor RF cards	✓	✓
SNMP network control modules to programme RF cards	✗	✓
Outdoor equipment for up to 80 RF channels, making direct to antenna installations simple and easy to accommodate	50 channel limit	✓
Line cards for L-Band, IF, S-Band, C-Band, UHF, VHF and 10MHz	✓	✓
Wide range of RF connector options, such as 75Ω or 50Ω impedance with F type, BNC or SMA connectors	✗	✓
Optical connector options, such as SC/APC, FC/APC, LC/APC, E2000/APC and SC/PC	✗	✓
On card WDM capability, allowing 2 optical streams onto a single fibre	✗	✓
Transmission distances of more than 50km	✓	✓
Unique ultra-high dynamic range and manual / auto gain control setting	✗	✓
RF cards are compatible with OEM modules	✓	✓
On card LNA/LNB feed options	✗	✓
Auto email alerts of alarm conditions	✗	✓

Standard Features	ViaLite <sup>®</sup>	ViaLiteHD <sup>®</sup>
Fibre management	✓	✓
External alarm indicators	✓	✓
Standard link uses a high performance DFB laser	✓	✓
When cross site fibre connections are limited, the complete ITU range of CWDM transmitter wavelengths is offered, up to 18 channels on one fibre	✓	✓
Wideband capability from 2kHz to 4.2GHz	✓	✓
10MHz reference links	✓	✓
Redundancy switches and RF splitters	✓	✓
Dual redundant PSUs	✓	✓
24V and 48V DC power supply option	✓	✓
FC/APC, SC/APC and E2000 optical connectivity	✓	✓



For over 15 years, PPM has specialised in the production of analogue fibre optic link technology, serving a wide range of commercial and military markets. *ViaLiteHD* is PPM's range of RF-over-Fibre products designed for communications applications.

Whilst manufacturing a wide range of standard products, PPM is dedicated to providing customised products to suit customers' specific needs: our design team works closely with the customer and partners, tailoring our core technology to produce the optimum fibre optic solution.

PPM provides custom solutions in commercial, industrial and military markets across the globe. Careful design consideration has enabled PPM to develop future-proof, advanced Satcom technology solutions that are not only extremely reliable in the field, but provide significant saving in installation costs through high-levels of system integration.



## Fibre optic solutions for your communications needs

Typical Markets	Typical Applications
Teleports	L band interfacility linking and antenna remoting
Wireless Cameras	Signal transmission from dual and quad diversity antennas
Broadcasting	Linking remote sites at outside broadcast events
Time and frequency distribution	GPS, GNSS, Radio time signals, Loran, IRIG
Government and defence	Secure networks
MoD	Military GPS synchronisation, mapping and satcom/radio antenna remoting
Industry	Communication network synchronisation
Cellular	Linking base station to backhaul networks, BTS hoteling
Tunnels	GPS and UHF re-radiators
Public safety and security	TETRA and GPS mapping and location
Exploration and seismology	Meteorological stations
Off-shore	Towed communication and oil field satcom buoys
Mining	GPS remoting and radio repeater systems

For more information please contact our team by phone +44 1793 784389 or email [sales@ppm.co.uk](mailto:sales@ppm.co.uk), or view our products and services at [www.vialite.com](http://www.vialite.com)



**Pulse Power & Measurement Ltd**

65 Shrivenham Hundred Business Park, Watchfield, Swindon, Wiltshire SN6 8TY, United Kingdom  
 t: +44 (0)1793 784389 f: +44 (0)1793 784391 e: [sales@ppm.co.uk](mailto:sales@ppm.co.uk) w: [www.vialite.com](http://www.vialite.com)

