



# *infonX*

**Unparalleled high frequency  
RF over Fibre signal transport**



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



# ViaLiteAIR

Introducing the next generation platform for high-performance optical signal transport and distribution.

Futureproof your communications infrastructure with our suite of scalable, open-architecture RF over Fibre solutions.

## infonX

**infonX** is the latest RF over Fibre optical link system offering unparalleled signal quality, achieving exceptional throughput capabilities with minimal signal loss.

The ability to deliver superior spurious-free dynamic range with very low noise values whilst maintaining signal integrity, allows **infonX** to exceed expectations in demanding high frequency applications.

The modular architecture incorporated within **infonX** allows for both standard and custom configurations of bandwidth, noise figure, gain and linearity parameters.

The intuitive onboard display and separate web-based user interface software show real-time data enabling you to monitor performance and accelerate initialisation.

## Typical Applications

- > Fixed satcom earth stations and teleports

> Signal Intelligence (SIGINT)

> Native frequency transport

> Government installations
- > Secure tactical data links over fibre


> Marine antennas

> Telemetry, Tracking and Command (TT&C)

> EW & ECM systems



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# Configuration

**infonX** is available in two general formats:

### Standard

The expert technical team at **ViaLite** have defined a specific portfolio of standard **infonX** configurations that meet and exceed the performance of comparable solutions currently available in the marketplace.

These products are available now with a competitive lead time and pricing structure.

### Custom

For those customers that have requirements outside of the scope of the standard format products, custom solutions are available. By collaborating closely with our team to establish your specification we can work together to provide you with an exact solution.

The flexibility of the platform offers an extensive array of parameter configurations - see below for illustrative examples:

Key	Low noise solution	Nominal solution	High linearity solution																
<table><tr><td>Noise floor*</td><td>IP3*</td></tr><tr><td>Gain</td><td>Bandwidth**</td></tr></table>	Noise floor*	IP3*	Gain	Bandwidth**	<table><tr><td>10 dB</td><td>-6 dBm</td></tr><tr><td>20 dB</td><td>18 GHz</td></tr></table>	10 dB	-6 dBm	20 dB	18 GHz	<table><tr><td>21 dB</td><td>-4 dBm</td></tr><tr><td>10 dB</td><td>18 GHz</td></tr></table>	21 dB	-4 dBm	10 dB	18 GHz	<table><tr><td>32 dB</td><td>22 dBm</td></tr><tr><td>-10 dB</td><td>18 GHz</td></tr></table>	32 dB	22 dBm	-10 dB	18 GHz
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\*Requirements for the noise figure and linearity can be achieved by configuring gain.  
\*\*A wider bandwidth impacts the flatness of gain, noise figure and IP3.

## Contact Us

Get in touch with our expert team today to find out how **infonX** can meet your high frequency performance requirements.

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# Explore

*inforX* offers multiple link selection options in a standard 1U form factor, allowing flexibility in your optical signal system design.

Parameter flexibility:

> Frequency range

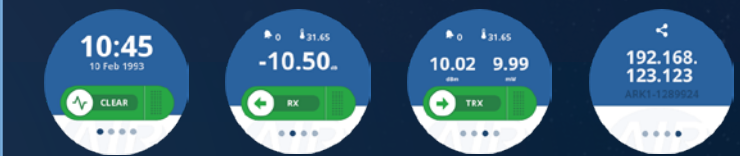
> Noise figure

> Linearity

> Gain

Modular open standard architecture supports interoperability

Compact 1U rack chassis with integrated display



LCD display helps keep track of real-time data:

- > Alarms
- > Module temperatures
- > Received Light Level (RLL)
- > Laser power
- > System management information



Secure interfaces facilitate remote monitoring and control

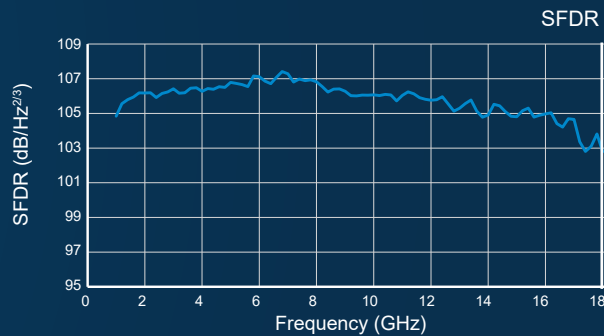
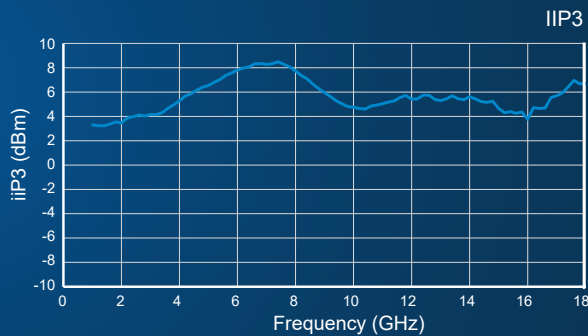
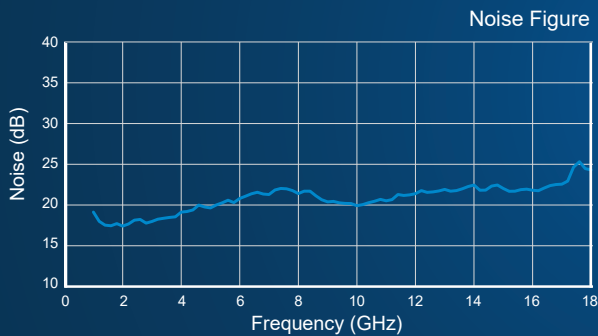
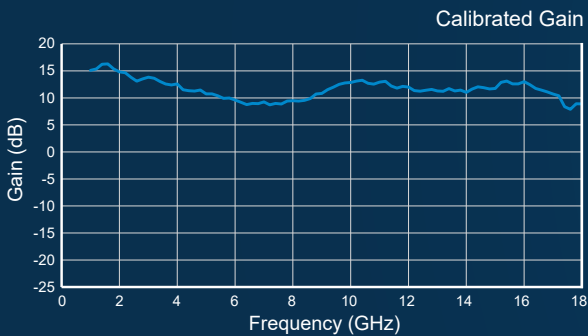
1-4 links available in any combination of Tx, Rx, Dual Tx, Dual Rx and TRx Rack Chassis cards

Dual redundant power supplies provide peace of mind with uninterrupted connectivity

Effective cooling system enables consistent operation

## Performance

Typical performance for *inforX 18*







# Specification

Example technical specification for **infonX 18**:

RF link parameters	Rf specification
Frequency range	1 to 18 GHz
Receiver gain setting, default (nominal)	+20 dB
Transmitter gain setting, default (nominal)	-10 dB
RF impedance (nominal)	50 $\Omega$
VSWR (typical)	< 2:1
Maximum RF input power without damage	+15 dBm
Optical parameters	Optical specification
CWDM optical wavelengths	1310 $\pm$ 3 nm, 1550 $\pm$ 3 nm (depending on part number configuration)
Optional DWDM optical wavelengths	DWDM ITU 50 / 100 GHz grid $\pm$ 0.1 nm
Laser type	DML (Directly Modulated Laser)
Optical power output, (typical)	10 mW
Power parameters	Power specification
Supply voltage, frequency	100 to 240 VAC, 50/60 Hz
AC power consumption, with two power supplies and two E/O link cards, excluding external LNB power	20 W, 0.4 PF
Rear panel connectors	Rear panel connectors specification
Optical link socket options	SC/APC, LC/APC, FC/APC narrow key
RF socket	K-type (2.92 mm)
Ethernet socket (chassis management)	RJ45
Optical socket option (chassis management)	LC/APC
AC power socket	IEC C14
Environmental parameters	Environmental specification
Operating temperature range	0 to +50 °C
Storage temperature range	-40 to +70 °C
Relative humidity (non-condensing)	0 to 95 %
Mechanical parameters	Mechanical specification
Weight, with two power supplies and two E/O link cards	4.2 kg
Width	483 mm (19" rack mounted equipment)
Height	44 mm (1U)
Depth	344 mm (behind rack mounting lugs)



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