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Viplax-II Technical Specification

Rev01 20130802

Input Amplifier:

Input voltage range:
Voltage Gain:
The input range is selected from the receiver unit.

A/DConverter:	
Digital Resolution:	14 bit
Sampling Rate:	36 Msps
Signal to Noise Ratio:	> 73 dB
Integral Linearity Error: 🚽 👜	±2.5 LSB
Differential Nonlinearity: 🚽	±1 LSB
Further information: see the Analog Devices AD9244 data she	et.

AntiAliasingFilter:

No internal filter, the desired behaviour is selected using external filters.	
3dB Frequency: approx.	10 MHz depending on the filter accuracy
Nyquist frequency:	18 MHz

Digital Signal Processing:

Signal Latency:	< 0.5 ms
System Bandwidth (3dB):	typ. 10MHz, (up to the Nyquist frequency)
System Status Bits:	A/D Overflow, Battery Load Condition
	Link Fault, Gain selection

Fiber Optics:

Maximum Bit Stream Frequency:	
Optical Wave Lenght	
Fiber Type:	
Connector:	
Maximum Length:	

D/A converter:

Resolution:
Sampling Rate:
Spurious Free Dynamic Range:
Integral Linearity Error: ᆿᆳ
Differential Nonlinearity: 🗐
Further information:

Output Amplifier:

Output Voltage Range:
Output Impedance:

Voltage Supply: *Receiver*/Transmitter: Link Fault, Gain selection

±10V

0dB

±5V;

±1V; ±2V;

20dB; 14dB; 6dB;

Approximately 1.5 Gbit 850 nm $62.5 \ \mu m \ or \ 125 \ \mu m \ core, \ multimode$ LC Type (duplex) 300m / 10.000m (with repeater)

14 bit 36 Msps. > 75dB. ± 2.5 LSB. ± 1.5 LSB (typ). see the Analog Devices AD9764 data sheet.

± 10.0 V 50 Ohm.

12 VDC / 1.2 A.