Product data sheet



ATS1743

ATS databus glasvezel interface.

Product Overview

The ATS1743 is a RS485 to Multimode optical fibre interface for directly extending the Advisor MASTER data bus with optical fibre. The maximum fibre distance is specified with an optical budget of 15 dB. The ATS1743 can be used with up to 1.5 km ATS databus using specified RS485 cable.

The greatest advantage of using optical fibre is that in general optical fibre is not subject to electromagnetic interference and there is less need to re-transmit signals.

The ATS1743 is only designed for multimode optical fibre and can operate in 2 modes: Uni-direction - two fibres and Bi-directions - one fibre

Optical Fibre Explanation

Optical fibre (or ""fibre optic"") refers to the medium and the technology associated with the transmission of information as light pulses along a glass or plastic wire or fibre.

Optical fibre carries much more information than conventional copper wire and is in general not subject to electromagnetic interference and the need to retransmit signals.

Single mode vs. Multimode fibre

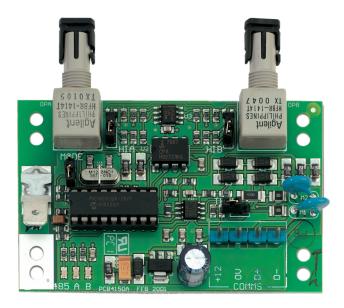
Single mode fibre is used for longer distances and most telephone company long-distance lines are now of optical fibre.

Transmission on optical fibre wire requires repeater at distance intervals.

Multimode fibre carries light according to several propagation modes and is used for shorter distances.

It presents some significant advantages for LANs, especially for multibuilding administrative complexes.

Since multimode provides a multi-lane information highway between switches to servers, switches to switches and the backbone it is ideal for handling complex systems. Moreover, connection of multimode is easier and faster, requiring simpler tools familiar to both technicians and managers. Finally, multimode is flexible, user-friendly and cost-effective.



Details

- · RS485 to optical fibre interface
- Maximum distance depending on optical budget of 15 dB
- Maximum 14 units can be cascaded in bi-directional mode or 15 in unidirectional mode
- Uni-direction (two fibres) or Bi-directions (one fibre) mode can be used
- · Multimode optical fibre only

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Technical specifications

General	
Accessory group	ATS Master
Туре	Module
Electrical	
Operating voltage	10.5 - 13.8 V
Power supply type	VDC
Current consumption	60 mA max
Specified cable	Aritech WCAT 52/54 or equivalent
Max. distance from panel	1.5 km
Physical	
Physical dimensions	90 x 80 mm (W x H)
Environmental	
Operating temperature	0 to 50°C
Relative humidity	95% maximum
Optical fibre	
Specified optical fibre	62.5/125 um multimode
type	
Wavelength	820 nm
Emitter type	AlGaAs LED
Optical budget	15 dB typical
Rx sensitivity	
	-27 dBm typical
Tx power	
Minimum	-21 to -15 dBm
Typical	-17 to -12 dBm
Maximum	-14 to -10 dBm
Max units cascade	d
Bi-directional/Dual fibre mode	14
Uni-directional/Single fibre mode	15

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