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Digital Integrated Solutions for
Telecommunication and Control

CS6021T
Smart Link 3 port Industrial 100M Converter, support Smart Link, Converter mode or Switch mode, 3x 10/100M TX, Selectable 4 pin dip-switch to execute port link fail to alarm relay. 12~56 VDC input, -40°C to +75°C

Key Features:

With "Smart Link" features to send link-fail signal to alarm relay by selectable 4 pin dip-switch for critical ports.
Support Link Fault Pass-through (LFP) to notify remote site.
Reverse polarity auto correction

Surge protection diodes on power input.

ESD protection diodes on RJ-45 port

Provides increased Noise Immunity

Input voltage range from 12~56 VDC

Extended environmental specification -40°C to 75°C

CS6021T

Models Also Available:

HCS6021SC --- smart link 3 ports Industrial POE+ 100M Fiber Switch, 2 x 10/100M TX PSE to 100M SC, MM 2km
HCS6021SC-30 --- smart link 3 ports Industrial POE+ 100M Fiber Switch, 2 x 10/100M TX PSE to 100M SC, SM 30km
HCS6021ST --- smart link 3 ports Industrial POE+ 100M Fiber Switch, 2 x 10/100M TX PSE to 100M ST, MM 2km
HCS6021WDM-15A --- smart link 3 ports Industrial POE+ 100M Fiber Switch, 2 x 10/100M TX PSE to 100M WDM, 1310nm SM 15km
HCS6021WDM-15B --- smart link 3 ports Industrial POE+ 100M Fiber Switch, 2 x 10/100M TX to 100M WDM, 1550nm SM 15km

Introduction

This smart link 3 ports Industrial Media Converter is designed for Security, Transportation and Telco application. It comes with 3 ports 10/100M TX with port link fail alarm. Its Smart Link feature acts as a watchdog for your critical ports that to send port link fail signal to alarm relay when link down detected. And it can also be set as a media converter to execute LFP (Link Fault Pass-Through) to notify remote site. It is Din-Rail mounted or wall-mounted. It is an ideal unit for IP surveillance, traffic monitoring and Security application. It can tolerate -40°C to 75°C in harsh environment to perform a reliable network.
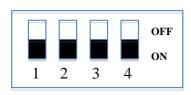

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Specification

IEEE Standard	IEEE 802.3 10Base-T Ethernet IEEE 802.3u 100Base-TX Fast Ethernet IEEE 802.3u 100Base-FX Fast Ethernet IEEE802.3x Flow Control and Back Pressure
Switch Architecture	Back-plane (Switching Fabric): 600Mbps
Data Processing	Store and Forward
Flow Control	IEEE 802.3x Flow Control and Back Pressure
MAC Address Table Size	1K
Network Connector	3 RJ-45 10/100M BaseT(X) Auto negotiation, Auto MDI/MDI-X function, Full/Half duplex,
LED Indicators	PW (Power) Green=power connected Yellow = alarm being triggered, OFF=normal state TX LEDs– Green=Link, Flash = TX/RX,
DIP Switch Function	Dip 1 – activate port 1 with smart link to alarm relay. Dip 2 – activate port 2 with smart link to alarm relay. Dip 3 – activate port 3 with smart link to alarm relay. Dip 4 – Link Fault Pass-Through (LFP) Enable
Power Protection	Surge protection diodes on power input Reverse polarity auto correction Overload current protection
Power Consumption	Max power consumption 3 Watts
Power Input	VDC 12~56V DC Jack terminal cable supported for 110/240VAC (optional)

Removable Terminal Block	Provide 4 pin terminal block, V+, V-, and Relay Wire range: 0.34mm^2 to 2.5mm^2 Solid wire (AWG):12-24/14-22 Stranded wire(AWG): 12-24/14-22 Torque:5lb-In/0.5Nm/0.56Nm Wire Strip length: 7-8mm
Alarm Relay	24VDC @ 1A. Normal state – open, Relay LED OFF Triggered states – short, Relay LED ON
Operating Temperature	-40℃~75℃ fully tested.
Operating Humidity	5% to 95% (Non-condensing)
Storage Temperature	-40℃~85℃
MTBF (mean time between failure)	510,304 hrs (MIL-HDBK-217F) at 25°C
Housing	Rugged Metal ,IP30 Protection
Case Dimension (L X W X D)mm	103.5mmx32mmx81.5mm (LxWxD)
Installation mounting	DIN Rail mounting and Wall Mounting

Certifications:

EN55022/24	ITE equipment
EN50155	Railways Applications Electronic Equipment used on Rolling Stock
EN55011	Industrial, Scientific and Medical (ISM) equipment
EN50121-3-2	Railway Applications – Electromagnetic Compatibility – Part 3-2 Rolling Stock - Apparatus
EN50121-4	Railway Applications – Electromagnetic Compatibility – Part4 Emissions and Immunity of the Signaling and Telecommunications Apparatus
Safety	IEC EN60950-1
EMC/EMS	CE, FCC, VCCI
EMI	FCC Part 15 Subpart B Class A, CE EN 55022 Class A
EN 50155 / EN 60068-2-6	Vibration
EN 50155 / EN 60068-2-27	Shock
EN 50155 / EN 60068-2-32	Free Fall

SmartLink Feature:

SmartLink is a built-in programmed feature detects port link status to report port link fail to local alarm relay and to remote port. If designated port is selected, when link fails, local alarm relay will be trigged, meanwhile remote port (no matter fiber or TX port) will link down. This feature is executed by turning on/off selecting 4 pin dip switch. If port is selected, SmartLink will monitor this port to local alarm relay and to remote site. It is a secure feature to keep your network safe from link down.

DIP 1	ON	**Port 1 Link fault pass through (LFP)** enabled
	OFF	LFP function disabled (default)
DIP 2	ON	**Port 2 Link fault pass through (LFP) enabled**
	OFF	LFP function disabled (default)
DIP 3	ON	**Port 1 Link fault pass through (LFP)** enabled
	OFF	LFP function disabled (default)
DIP 4	ON	**Primary switch to enable/disable LFP (Link fault pass through) and Alarm Relay**
	OFF	**Disable LFP and alarm relay feature for all ports**

DIP 4 is the primary dip switch to enable/disable alarm relay and LFP function for entire unit.

Once LFP function is enabled, Link status of one port is forwarded to the other ports.

Note1: When The trigged port loss of signal, takes 10 seconds to propagate the signal loss to other ports.

Housing Dimension