

## CS6021SC

3 port Industrial Media Converter, with 2 x 10/100M TX+ 1 x 100M fiber MM SC 2km, with SmartLink feature, 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 protection

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



CS6021SC

### Models Also Available:

CS6021SC --- smart link 3 ports Industrial media converter, with 2 x 10/100M TX to 100M SC, MM 2km

CS6021SC-30 --- smart link 3 ports Industrial media converter, with 2 x 10/100M TX to 100M SC, SM 30km

CS6021ST --- smart link 3 ports Industrial media converter, with 2 x 10/100M TX to 100M ST, MM 2km

CS6021WDM-15A --- smart link 3 ports Industrial media converter, with 2 x 10/100M TX to 100M WDM, 1310nm SM 15km

CS6021WDM-15B --- smart link 3 ports Industrial media converter, with 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 to extend Link distance to your remote devices. It comes with 2 ports 10/100M TX for your easy trouble shooting without disconnect your device. 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.

# Specification

<b>IEEE Standard</b>	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
<b>Switch Architecture</b>	Back-plane (Switching Fabric): 600Mbps
<b>Data Processing</b>	Store and Forward
<b>Flow Control</b>	IEEE 802.3x Flow Control and Back Pressure
<b>MAC Address Table Size</b>	1K
<b>Network Connector</b>	2 RJ-45 10/100M BaseT(X) Auto negotiation, Auto MDI/MDI-X function, Full/Half duplex, Fiber ports: 100M MM SC 2km, 100BaseFX WDM SM 15km, SC, ST, SC SM 30km,
<b>LED Indicators</b>	PW (Power) Green=power connected Yellow = alarm being triggered, OFF=normal state TX LEDs– Green=Link, Flash = TX/RX, Optical Fiber – Green=Link, Flash =TX/RX
<b>DIP Switch Function</b>	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
<b>Power Protection</b>	Surge protection diodes on power input Reverse polarity protection Overload current protection
<b>Power Consumption</b>	Max power consumption 3 Watts
<b>Power Input</b>	VDC 12~56V DC Jack terminal cable supported for 110/240VAC (optional)

<b>Removable Terminal Block</b>	Provide 4 pin terminal block, V+, V-, and Relay Wire range: 0.34mm <sup>2</sup> to 2.5mm <sup>2</sup> 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
<b>Alarm Relay</b>	24VDC @ 1A. Normal state – open, Relay LED OFF Triggered states – short, Relay LED ON
<b>Operating Temperature</b>	-40°C~75°C fully tested.
<b>Operating Humidity</b>	5% to 95% (Non-condensing)
<b>Storage Temperature</b>	-40°C~85°C
<b>MTBF (mean time between failure)</b>	510,304 hrs ( MIL-HDBK-217F) at 25°C
<b>Housing</b>	Rugged Metal ,IP30 Protection
<b>Case Dimension (L X W X D)mm</b>	103.5mmx32mmx81.5mm (LxWxD)
<b>Installation mounting</b>	DIN Rail mounting and Wall Mounting
<b>Certifications:</b>	
<b>EN55022/24</b>	ITE equipment
<b>EN50155</b>	Railways Applications Electronic Equipment used on Rolling Stock
<b>EN55011</b>	Industrial, Scientific and Medical (ISM) equipment
<b>EN50121-3-2</b>	Railway Applications – Electromagnetic Compatibility – Part 3-2 Rolling Stock - Apparatus
<b>EN50121-4</b>	Railway Applications – Electromagnetic Compatibility – Part4 Emissions and Immunity of the Signaling and Telecommunications Apparatus
<b>Safety</b>	IEC EN60950-1
<b>EMC/EMS</b>	CE, FCC, VCCI
<b>EMI</b>	FCC Part 15 Subpart B Class A, CE EN 55022 Class A
<b>EN 50155 / EN 60068-2-6</b>	Vibration
<b>EN 50155 / EN 60068-2-27</b>	Shock
<b>EN 50155 / EN 60068-2-32</b>	Free Fall
<b>NEMA/TS2</b>	Compliant

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

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 triggered port loss of signal, takes 10 seconds to propagate the signal loss to other ports.

# Housing Dimension

