

IMC-1000C

10/100/1000Base-T to 1000Base-SX/LX Fiber Converter

IMC-1000CS

10/100/1000Base-T to 100/1000Base-X SFP Fiber Converter

IMC-1000C(S) is a family of Gigabit Ethernet non-managed media converters that support conversion between electrical 10/100/1000Base-T and optical 1000Base-X Ethernet. Simple DIP switch settings allow configuring the UTP port for auto-negotiation or for forced 10/100/1000 speed and half/full duplex as well as for enabling LFPT (Link Fault Pass Through), Ethernet flow control(802.3x) and selecting Switch Mode (store & forward) or Converter Mode (Jumbo frame Pass-through). Housed in rugged DIN rail or wall mountable enclosures, these converters are designed for harsh environments, such as industrial networking and intelligent transportation systems (ITS) and are also suitable for many military and utility market applications where environmental conditions exceed commercial product specifications.

Features

Protection

- DC input power 12/24/48VDC (9.6 ~ 60VDC)
- IP30 rugged metal housing and fanless
- Wide operating temperature -20 ~ 75°C
- (IMC-1000C-E, IMC-1000CS-E)
- CE, FCC, Railway traffic EN50121-4 certification
 Industrial Grade EMS, EMI, EN61000-6-2, EN61000-6-4 certified

Specifications

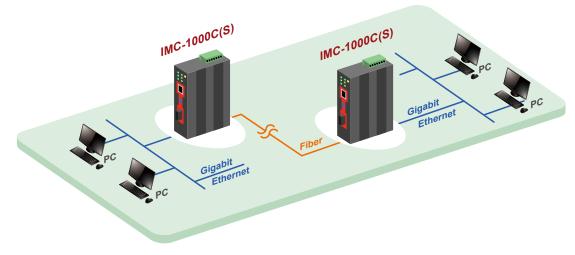
Standard	IEEE802.3 10Base-T 10Mbit/s Ethernet
	IEEE802.3u 100Base-TX, 100Base-FX, Fast Ethernet
	IEEE802.3ab 1000Base-T Gbit/s Ethernet over twisted pair
	IEEE802.3z 1000Base-X Gbit/s Ethernet over Fiber-Optic
	IEEE802.3x Flow Control
RJ45 Ports	10/100/1000Base-TX
Fiber Ports	1000Base SX/LX, SC (IMC-1000C) 100/1000Base-X SFP Slot (IMC-1000CS)
Data Process Architecture	Store and Forward mode or Pass through mode set by DIP SW
Jumbo Frame	9K bytes
Fiber	Fiber Cable (Multi-mode): 50/125um, 62.5/125um
Parameters	Fiber Cable (Single-mode): 9/125um
	Wavelength: 1310nm (Multi-mode/Single-mode)
	Available distance: (IMC-1000C) 500M (Multi-mode SX) 20KM (Single-mode) 40KM (Single-mode)
	SFP (IMC-1000CS), Distance depend on SFP Fiber Tranceiver
Link Fault Pass Through	TX-Fiber: If TX port link down, the media converter will force Fiber port to link down
(LFPT)	Fiber-TX: If Fiber port link down, the media converter will force TX port to link down
DIP Switch	Data process architecture OFF: Switch Mode ON: Converter Mode
	LFPT OFF:LFPT Disable ON: LFPT Enable
	Fiber Duplex OFF: Auto ON: Force
	Fiber Speed (Only for IMC-1000CS) OFF: 1000Base-X ON: 100Base-FX
Connector	Fiber: SC (Multi-mode, 500M), SC (Single-mode, 20KM, 40KM) (IMC-1000C) SFP Slot (IMC-1000CS)
	RJ-45 Socket: CAT 5e Twisted Pair cable Auto MDI/MDI-X and Auto- Negotiation Function Supports
LED	Per Unit: Power (Green)
	SFP/Fiber port Link/Act (Yellow)
	RJ-45 port: Speed & Link/Act 10/100 (Green), 1000 (Yellow)
Reserve Polarity Protection	Present
Overload Current	Present

- Store-and-Forward mode and Pass through mode (set by DIP SW)
- Conversion between 10/100/1000Base-T and 1000Base-X Fiber cable interface
- Provides a DIP-Switch to set functions
- Supports LFPT (Link Fault Pass Through)

		9.6~60VDC) or 24VAC (function and removal		
Power Consumption	Input Voltage	IMC-1000C	IMC-1000CS	
	12VDC	2.1W	1.8W	
	24VDC	2.2W	2W	
	48VDC	3.4W	2.9W	
lemovable erminal Block	Provide for inp	out power (2 Pin)		
Operating Humidity	5% ~ 95% (Non-condensing)			
Operating	-10 ~ 60°C (IMC-1000C, IMC-1000CS)			
Temperature	-20 ~ 75°C (IMC-1000C-E, IMC-1000CS-E)			
Storage Femperature	-40 ~ 85°C			
Housing	Rugged Metal, IP30 Protection and fanless			
Dimensions	70x 30x 103 mm (D x W x H)			
Weight	220g (IMC-1000C) 215g (IMC-1000CS)			
nstallation	DIN Rail, or wall mounting (Optional)			
MTBF	325,508 (IMC-1000C) 326,287 (IMC-1000CS) (MIL-HDBK-217)			
Varranty	5 years			
Certification				
MC	CE			
EMI Electromagnetic nterference)	FCC Part 15 Subpart B Class A,CE EN55022 Class A			
	ENI50121-4			
Railway Traffic	EN50121-4			
Railway Traffic Immunity for Heavy Industrial Environment	EN50121-4 EN61000-6-2			
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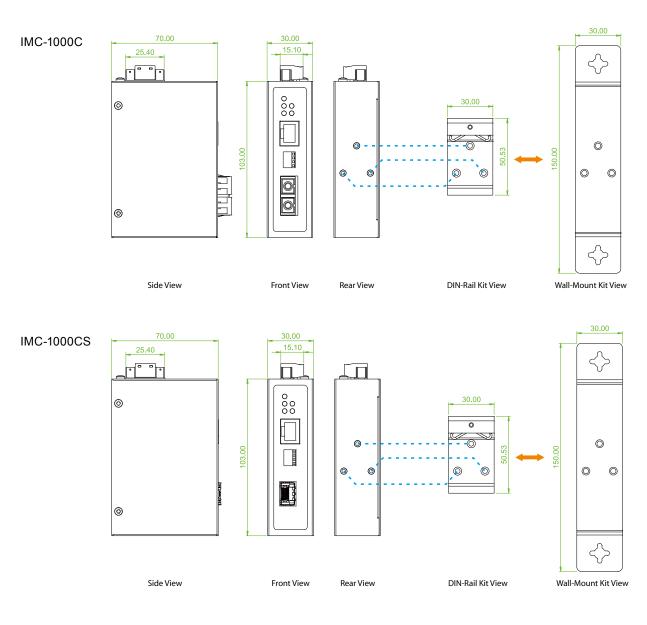
Specifications & design are subject to change without prior notice. Please visit CTC Union website for more details.

Application & Topology





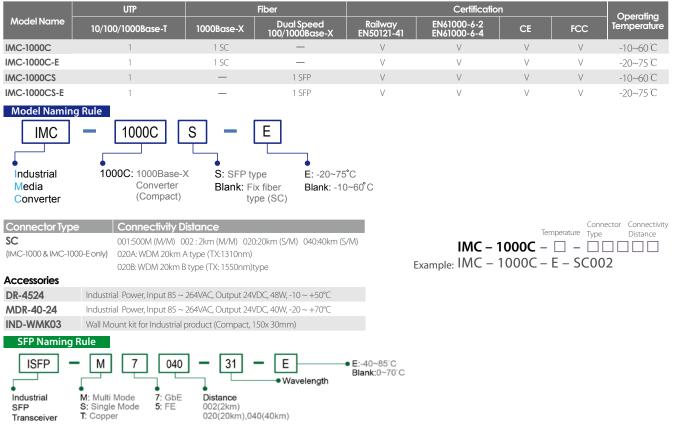
Dimensions



www.ctcu.com

CTC

Ordering Information



IMC-1000C & IMC-1000CS

2 Compact Ind. Unmanaged

GbE Converter