Industrial Fast Ethernet Media Converter

IFC-1200

The IFC-1200 is industrial grade fiber media converter that provides 2-port 10/100Base-TX and 1-port 100Base-FX. The reliable hardware design is suitable for keeping industrial automation application running continuously. Each IFC-1200 media converter comes with two relay output alarms and two redundant DC power inputs to help prevent damage and loss. The IFC-1200 media converter supports operating temperatures of 0 to 60 degree C.

Features

- 2-port 10/100Base-TX to 100Base-FX Converter
- Auto-Negotiation on two LAN port
- Auto MDI/MDIX
- Supports max forwarding packet length 1552 bytes
- Supports Q in Q double tagged frame transparent
- Supports IEEE 802.1q Tag VLAN pass thru
- Supports flow control (Pause)
- Supports Far End Fault
- Supports two Relay out (Arc-Free Contact)

Industrial Grade Performance

- Power or Optical Fiber failure alarm by relay output
- Supports DIN-Rail & wall mount
- Redundant dual DC power inputs

Specifications

Optical Interface

Connector: 1x9 (SC,FC,ST)
Data rate: 100Mbps
Duplex mode: Full duplex
Fiber
MM 50/125μm, 62.5/125μm.
SM 9/125μm
Distance
MM 2km, SM 15/30/50/80/120km,
WDM 20/40/60/80km
Wavelength
MM 1310nm, SM 1310,1550nm
WDM 1310Tx/1550Rx (type A)
1550Tx/1310Rx (type B)

Electrical Interface

Connector: RJ45
Data rate: 10Mbps, 100Mbps
Duplex mode: Half / Full duplex
Cable
10Base-T Cat.3, 4, 5, UTP,
100Base-TX Cat.5, 5e or higher

Standard

IEEE 802.3, IEEE 802.3u

LED Indications

PWR 1/2, FX-Link/Act, LAN1-Link/Act,
LAN2-Link/Act, Alarm
(Power or Optical Fiber Failure Alarm)

Power

Power Input
PWR : 1/2
DC12-48 VDC
Power Consumption < 4.8W

Mechanical

Dimension
106 x 62.5 x 134.8mm (DxWxH)
Weight
460g
Physical Characteristics
Housing: Metal
IP Protection
IP30

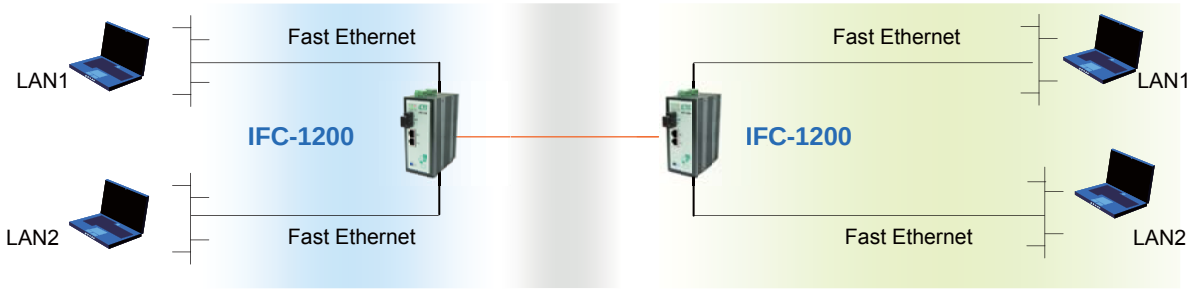
Environmental

Temperature
Operating: 0 ~ 60°C
Storage: -10 ~ 70°C
Humidity
0 ~ 90% non-condensing

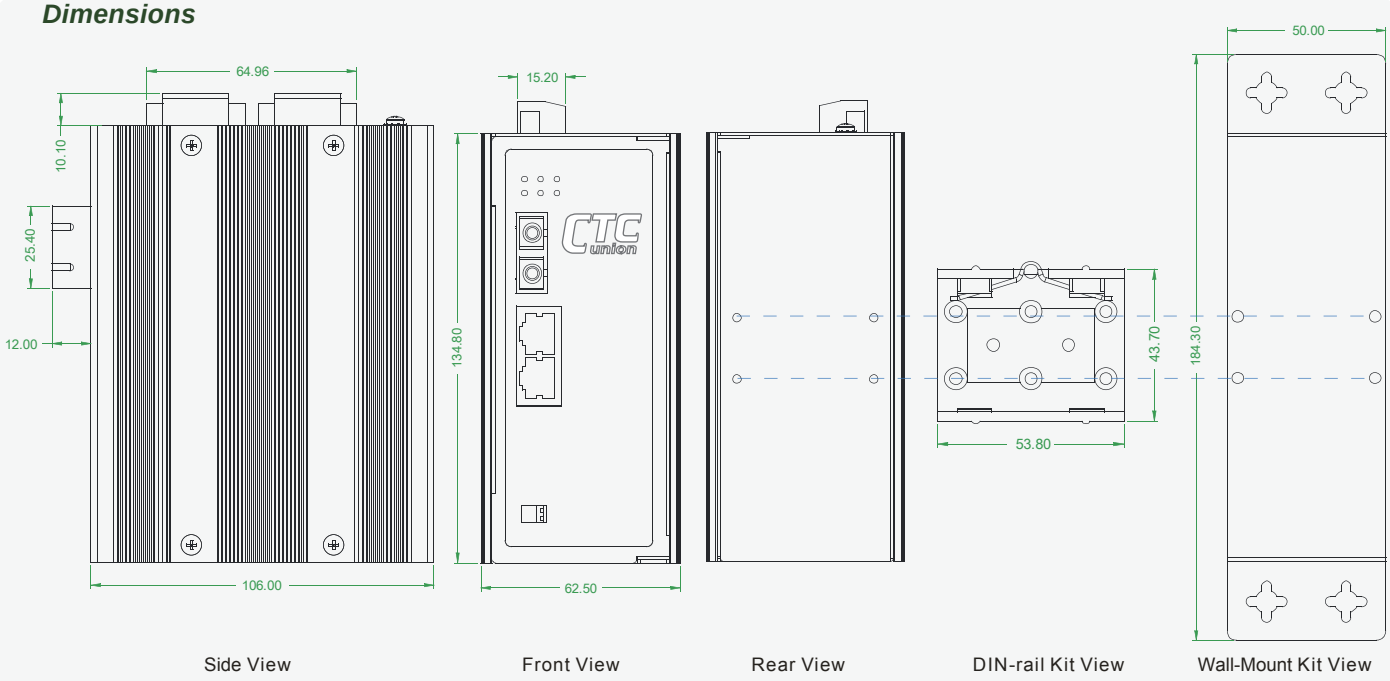
Approvals

Safety
CSA C22.2 No.60950-1, EN60950-1
EMI
FCC Part 15, CISPR(EN55022) ClassA
EMS
EN61000-4-2 (ESD), Level3
EN61000-4-3 (RS), Level3
EN61000-4-4 (EFT), Level3
EN61000-4-5 (Surge), Level3
EN61000-4-6 (CS), Level3
EN61000-4-8
EN61000-4-11
MTBF 401,000 hrs
Warranty
5 years

Applications



Dimensions



Ordering Information

Product Type	Connector Type	Connectivity Distance		Wide Temperature Range
IFC-1200 IFC-1200-X	SC ST FC	002:2km 015:15km 030:30km 050:50km 080:80km 120:120km	*20A: WDM 20km A type *20B: WDM 20km B type *40A: WDM 40km A type *40B: WDM 40km B type *60A: WDM 60km A type *60B: WDM 60km B type *80A: WDM 80km A type *80B: WDM 80km B type	X:-40~85°C operating range *Standard model(IFC-1200)has 0 to 60°C operating range

Optional Accessories

DRK01: Din Rail mount kit (standardized 35 mm wide)
WMK01:Wall mount kit

Sample: IFC-1200-SC002
IFC-DRK01

Industrial Fast Ethernet Media Converter

IFC-1200-X

The IFC-1200-X is industrial grade fiber media converter that provides 2-port 10/100Base-TX and 1-port 100Base-FX. The reliable hardware design is suitable for keeping industrial automation application running continuously. Each IFC-1200-X media converter comes with two relay output alarms and two redundant DC power inputs to help prevent damage and loss. The IFC-1200-X media converter supports operating temperatures of -40 to 85 degree C.

Features

- 2-port 10/100Base-TX to 100Base-FX Converter
- Auto-Negotiation on two LAN port
- Auto MDI/MDIX
- Support max forwarding packet length 1552 bytes
- Supports Q in Q double tagged frame transparent
- Supports IEEE 802.1q Tag VLAN pass thru
- Support flow control (Pause)
- Supports Far End Fault
- Support two Relay out (Arc-Free Contact)

Industrial Grade Performance

- Power or Optical Fiber failure alarm by relay output
- Support DIN-Rail & wall mount
- -40 to 85°C operating temperature range
- Redundant dual DC power inputs

Specifications

Optical Interface

Connector: 1x9 (SC,FC,ST)
Data rate: 100Mbps
Duplex mode: Full duplex
Fiber
MM 50/125μm, 62.5/125μm.
SM 9/125μm
Distance
MM 2km, SM 15/30/50/80/120km,
WDM 20/40/60/80km
Wavelength
MM 1310nm, SM 1310,1550nm
WDM 1310Tx/1550Rx (type A)
1550Tx/1310Rx (type B)

Electrical Interface

Connector: RJ45
Data rate: 10Mbps, 100Mbps
Duplex mode: Half / Full duplex
Cable
10Base-T Cat.3, 4, 5, UTP,
100Base-TX Cat.5, 5e or higher

Standard

IEEE 802.3, IEEE 802.3u

LED Indications

PWR 1/2, FX-Link/Act, LAN1-Link/Act, LAN2-Link/Act, Alarm (Power or Optical Fiber Failure Alarm)

Power

Power Input
PWR : 1/2
DC12-48 VDC
Power Consumption: < 4.8W

Mechanical

Dimension
106 x 62.5 x 134.8mm (DxWxH)
Weight
460g
Physical Characteristics
Housing: Metal
IP Protection
IP30

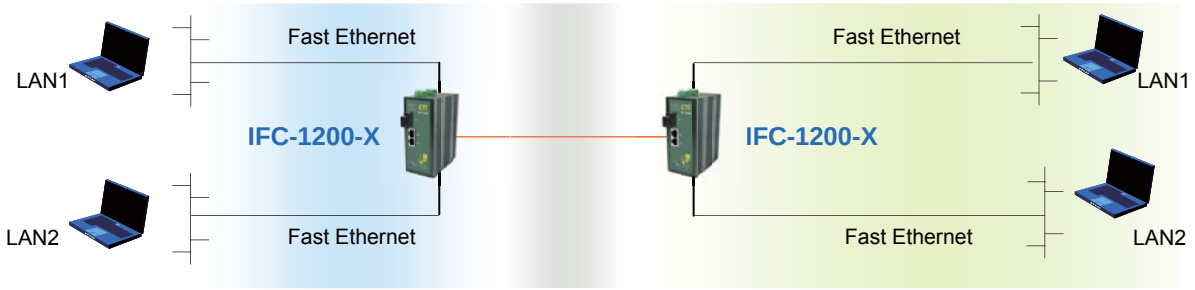
Environmental

Temperature
Operating: -40 ~ 85°C
Storage: -40 ~ 85°C
Humidity
0 ~ 90% non-condensing

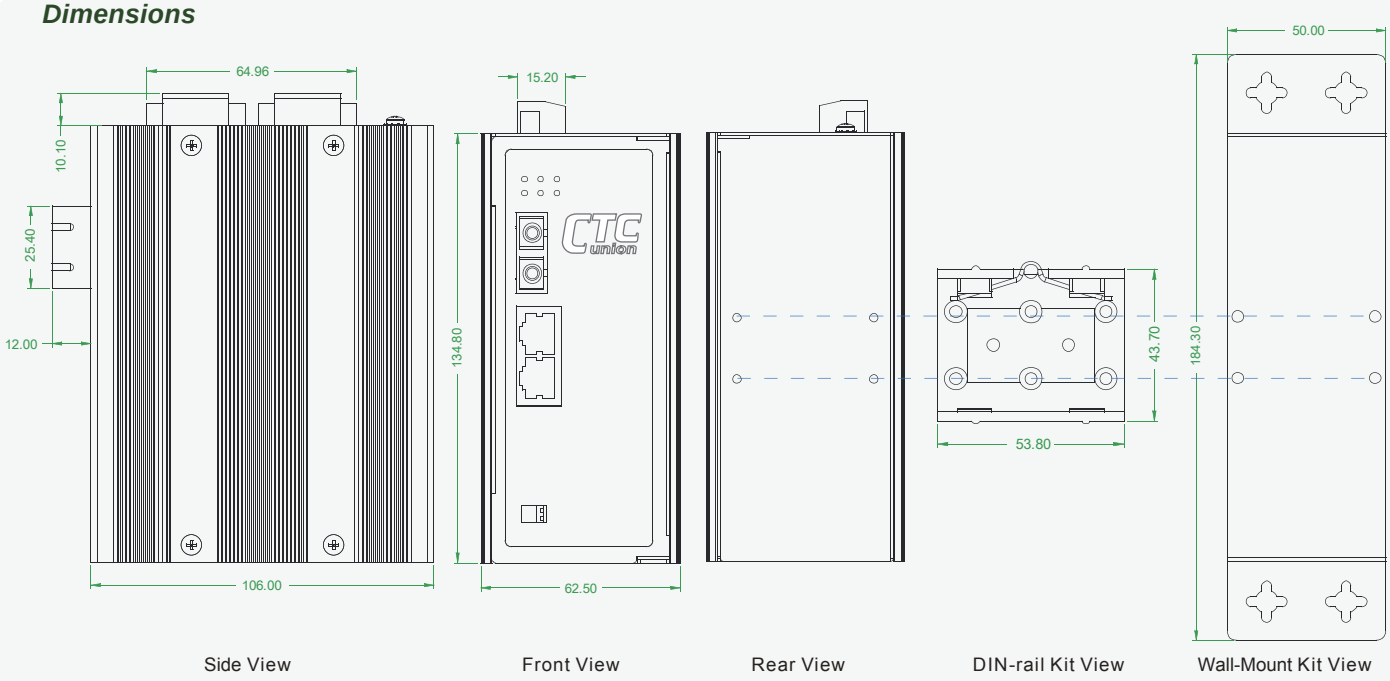
Approvals

Safety
CSA C22.2 No.60950-1, EN60950-1
EMI
FCC Part 15, CISPR(EN55022) ClassA
EMS
EN61000-4-2 (ESD), Level3
EN61000-4-3 (RS), Level3
EN61000-4-4 (EFT), Level3
EN61000-4-5 (Surge), Level3
EN61000-4-6 (CS), Level3
EN61000-4-8
EN61000-4-11
MTBF 401,000 hrs
Warranty
5 years

Applications



Dimensions



Ordering Information

Product Type	Connector Type	Connectivity Distance		Wide Temperature Range
IFC-1200 IFC-1200-X	SC ST FC	002:2km 015:15km 030:30km 050:50km 080:80km 120:120km	*20A: WDM 20km A type *20B: WDM 20km B type *40A: WDM 40km A type *40B: WDM 40km B type *60A: WDM 60km A type *60B: WDM 60km B type *80A: WDM 80km A type *80B: WDM 80km B type	X:-40~85°C operating range *Standard model(IFC-1200)has 0 to 60°C operating range

Optional Accessories

DRK01: Din Rail mount kit (standardized 35 mm wide)
WMK01:Wall mount kit

Sample: IFC-1200-X-SC002
IFC-DRK01

Industrial Fast Ethernet Switch

IFC-1400

The IFC-1400 is industrial grade Fast Ethernet Switch that provides 4-port 10/100Base-TX and 1-port 100Base-FX. The reliable hardware design is suitable for keeping industrial automation application running continuously. Each IFC-1400 media converter comes with two relay output alarms and two redundant DC power inputs to help prevent damage and loss. The IFC-1400 media converter is available in models that support operating temperatures of 0 to 60 degree C.

Features

- 4-port 10/100Base-TX to 100Base-FX Switch
- Auto-Negotiation on two LAN port
- Auto MDI/MDIX
- Supports max forwarding packet length 1552 bytes
- Supports Q in Q double tagged frame transparent
- Supports IEEE 802.1q Tag VLAN pass thru
- Supports flow control (Pause)
- Supports Far End Fault
- Supports two Relay out (Arc-Free Contact)

Industrial Grade Performance

- Power or Optical Fiber failure alarm by relay output
- Supports DIN-Rail & wall mount
- Redundant dual DC power inputs

Specifications

Optical Interface

Connector: 1x9 (SC,FC,ST)
Data rate: 100Mbps
Duplex mode: Full duplex
Fiber
MM 50/125μm, 62.5/125μm.
SM 9/125μm
Distance
MM 2km, SM 15/30/50/80/120km,
WDM 20/40/60/80km
Wavelength
MM 1310nm, SM 1310,1550nm
WDM 1310Tx/1550Rx (type A)
1550Tx/1310Rx (type B)

Electrical Interface

Connector: RJ45
Data rate: 10Mbps, 100Mbps
Duplex mode: Half / Full duplex
Cable
10Base-T Cat.3, 4, 5, UTP,
100Base-TX Cat.5, 5e or higher

Standard

IEEE 802.3, IEEE 802.3u

LED Indications

PWR 1/2, FX-Link/Act, LAN1-Link/Act,
LAN2-Link/Act, Alarm
(Power or Optical Fiber Failure Alarm)

Power

Power Input
PWR : 1/2
DC12-48 VDC
Power Consumption < 4.8W

Mechanical

Dimension
106 x 62.5 x 134.8mm (DxWxH)
Weight
460g
Physical Characteristics
Housing: Metal
IP Protection
IP30

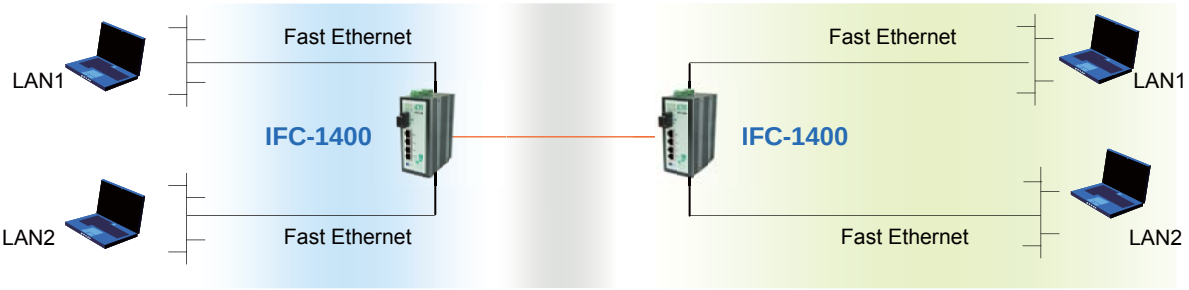
Environmental

Temperature
Operating: 0 ~ 60°C
Storage: -10 ~ 70°C
Humidity
0 ~ 90% non-condensing

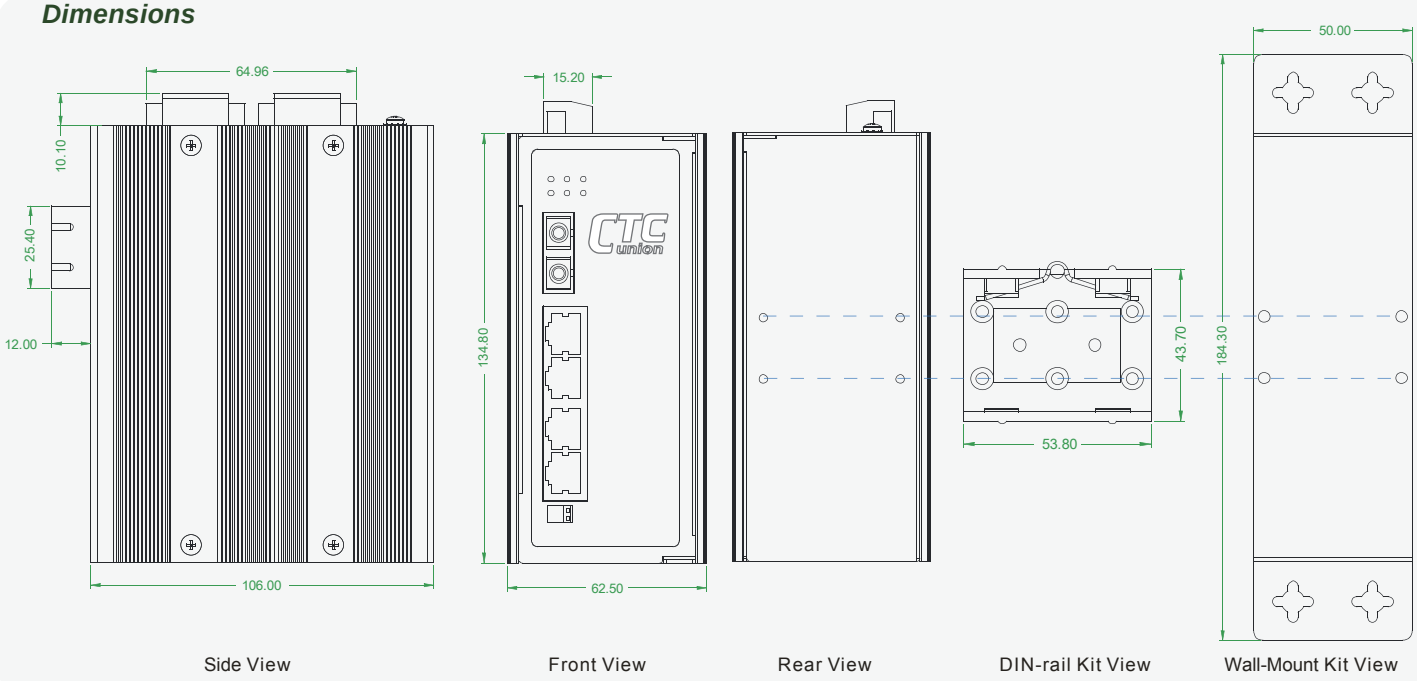
Approvals

Safety
CSA C22.2 No.60950-1, EN60950-1
EMI
FCC Part 15, CISPR(EN55022) ClassA
EMS
EN61000-4-2 (ESD), Level3
EN61000-4-3 (RS), Level3
EN61000-4-4 (EFT), Level3
EN61000-4-5 (Surge), Level3
EN61000-4-6 (CS), Level3
EN61000-4-8
EN61000-4-11
MTBF 401,000 hrs
Warranty
5 years

Applications



Dimensions



Side View | Front View | Rear View | DIN-rail Kit View | Wall-Mount Kit View

Ordering Information

Product Type	Connector Type	Connectivity Distance		Wide Temperature Range
IFC-1400 IFC-1400-X	SC ST FC	002:2km 015:15km 030:30km 050:50km 080:80km 120:120km	*20A: WDM 20km A type *20B: WDM 20km B type *40A: WDM 40km A type *40B: WDM 40km B type *60A: WDM 60km A type *60B: WDM 60km B type *80A: WDM 80km A type *80B: WDM 80km B type	X:-40~85°C operating range *Standard model(IFC-1400)has 0 to 60°C operating range

Optional Accessories

DRK01: Din Rail mount kit (standardized 35 mm wide)
WMK01:Wall mount kit

Sample: IFC-1400-SC002
IFC-DRK01

Industrial Fast Ethernet Switch

IFC-1400-X

The IFC-1400-X is industrial grade Fast Ethernet Switch that provides 4-port 10/100Base-TX and 1-port 100Base-FX. The reliable hardware design is suitable for keeping industrial automation application running continuously. Each IFC-1400-X media converter comes with two relay output alarms and two redundant DC power inputs to help prevent damage and loss. The IFC-1400-X media converter is available in models that support operating temperatures of -40 to 85 degree C.

Features

- 4-port 10/100Base-TX to 100Base-FX Switch
- Auto-Negotiation on two LAN port
- Auto MDI/MDIX
- Supports max forwarding packet length 1552 bytes
- Supports Q in Q double tagged frame transparent
- Supports IEEE 802.1q Tag VLAN pass thru
- Supports flow control (Pause)
- Supports Far End Fault
- Supports two Relay out (Arc-Free Contact)

Industrial Grade Performance

- Power or Optical Fiber failure alarm by relay output
- Supports DIN-Rail & wall mount
- -40 to 85°C operating temperature range
- Redundant dual DC power inputs

Specifications

Optical Interface

Connector: 1x9 (SC,FC,ST)
Data rate: 100Mbps
Duplex mode: Full duplex
Fiber
MM 50/125μm, 62.5/125μm.
SM 9/125μm
Distance
MM 2km, SM 15/30/50/80/120km,
WDM 20/40/60/80km
Wavelength
MM 1310nm, SM 1310,1550nm
WDM 1310Tx/1550Rx (type A)
1550Tx/1310Rx (type B)

Electrical Interface

Connector: RJ45
Data rate: 10Mbps, 100Mbps
Duplex mode: Half / Full duplex
Cable
10Base-T Cat.3, 4, 5, UTP,
100Base-TX Cat.5, 5e or higher

Standard

IEEE 802.3, IEEE 802.3u

LED Indications

PWR 1/2, FX-Link/Act, LAN1-Link/Act, LAN2-Link/Act, Alarm (Power or Optical Fiber Failure Alarm)

Power

Power Input
PWR : 1/2
DC12-48 VDC
Power Consumption: < 4.8W

Mechanical

Dimension
106 x 62.5 x 134.8mm (DxWxH)
Weight
460g
Physical Characteristics
Housing: Metal
IP Protection
IP30

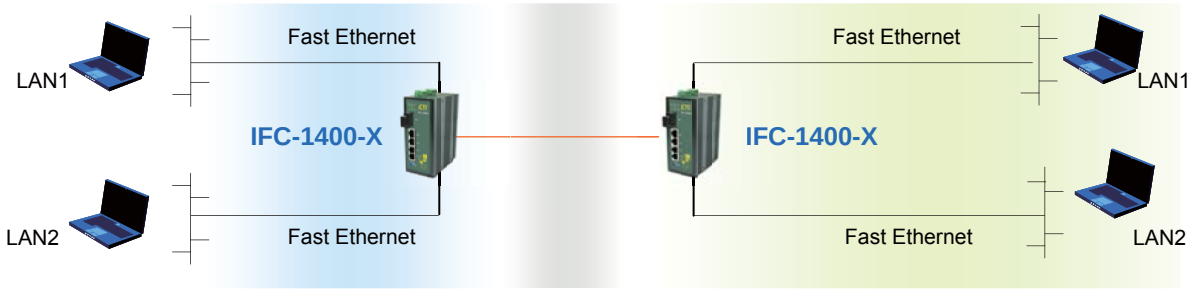
Environmental

Temperature
Operating: -40 ~ 85°C
Storage: -40 ~ 85°C
Humidity
0 ~ 90% non-condensing

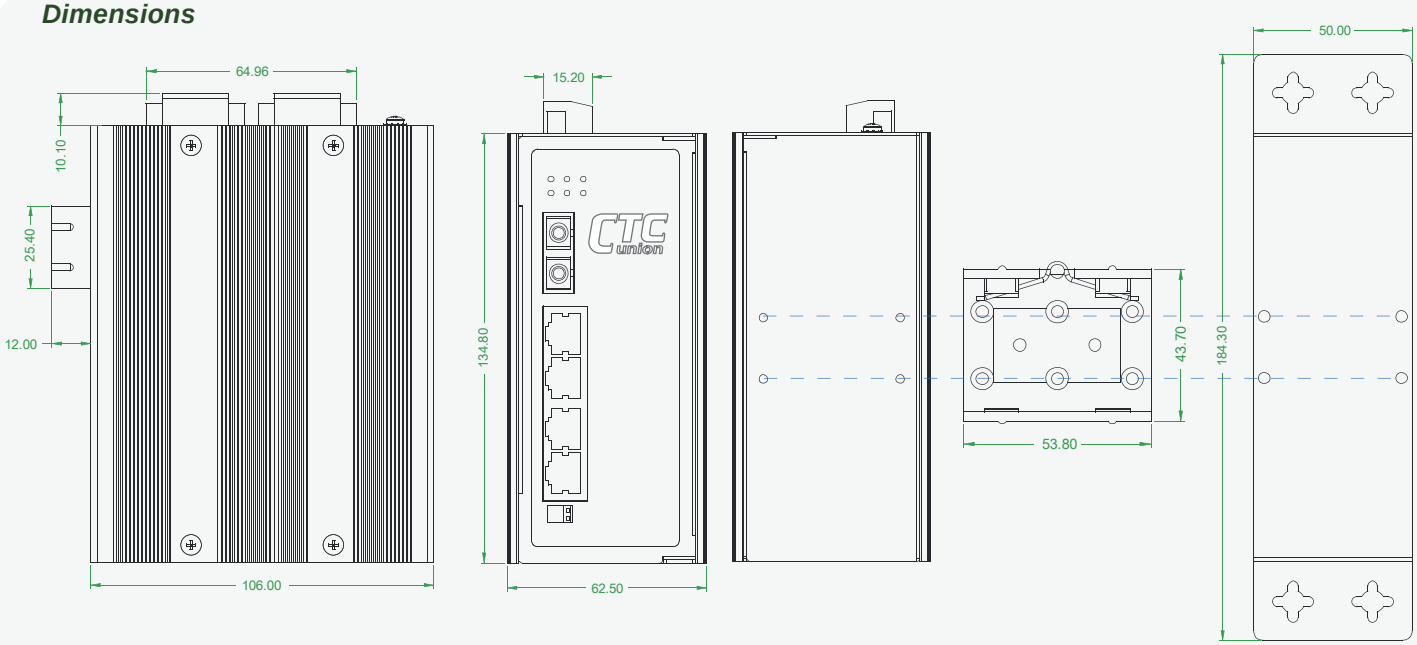
Approvals

Safety
CSA C22.2 No.60950-1, EN60950-1
EMI
FCC Part 15, CISPR(EN55022) ClassA
EMS
EN61000-4-2 (ESD), Level3
EN61000-4-3 (RS), Level3
EN61000-4-4 (EFT), Level3
EN61000-4-5 (Surge), Level3
EN61000-4-6 (CS), Level3
EN61000-4-8
EN61000-4-11
MTBF 401,000 hrs
Warranty
5 years

Applications



Dimensions



Side View | Front View | Rear View | DIN-rail Kit View | Wall-Mount Kit View

Ordering Information

Product Type	Connector Type	Connectivity Distance		Wide Temperature Range
IFC-1400 IFC-1400-X	SC ST FC	002:2km 015:15km 030:30km 050:50km 080:80km 120:120km	*20A: WDM 20km A type *20B: WDM 20km B type *40A: WDM 40km A type *40B: WDM 40km B type *60A: WDM 60km A type *60B: WDM 60km B type *80A: WDM 80km A type *80B: WDM 80km B type	X:-40~85°C operating range *Standard model(IFC-1200)has 0 to 60°C operating range

Optional Accessories

DRK01: Din Rail mount kit (standardized 35 mm wide)
WMK01:Wall mount kit

Sample: IFC-1400-X-SC002
IFC-DRK01

New

RS485/422/232 Fiber Converter

IFC-Serial

The IFC-Serial is industrial grade fiber media converter that provides a solution to extend asynchronous RS-485 or RS-232 transmission distance up to 2km over multimode fiber or up to 120km over single mode fiber. The converter is equipped with multiple interface circuits for connection to RS-232 or RS-485/422 (2 or 4 wire, full or half duplex). The IFC-Serial secures data transmission over EMI resistant fiber at speeds up to 460kbps for RS-232 or up to 1024kbps for RS-485/422. The IFC-Serial reliable industrial design is suitable for keeping your industrial automation applications running continuously. Each IFC-Serial media converter comes with two relay output alarms and two redundant DC power inputs to help prevent damage and loss. The IFC-Serial media converter is available in models that support operating temperatures of 0 to 60°C.

Features

- Extend asynchronous serial transmission from 2km to 120km over fiber
- Dip Switch selectable data interface for RS232/ 422/ 485
- Dip Switch selectable two wires (half duplex) or four wires (full duplex) RS485
- Dip Switch selectable three or five wires RS232
- Speeds up to 256kbps for RS232 (Async. mode)
- Speeds up to 1Mbps for RS485/422

Industrial Grade Performance

- Power or Optical Fiber failure alarm by relay output
- Supports DIN-Rail & wall mount
- Redundant dual DC power inputs

Specifications

Optical Interface

Connector : 1x9 (SC, ST, FC) or SFP LC
Data rate : 36.864Mbps
Line coding : Scrambled NRZ
Bit Error Rate : Less than 10^{-10}
Cable type : MM 62.2/125μm, 50/125μm. SM 9/125μm
Distance : MM 2km, SM 15/30/50/80/120km, WDM 20/40/60/80km
Wavelength : MM 1310nm, SM 1310, 1550nm, WDM 1310Tx/1550Rx(type A) 1550Tx/1310Rx(type B)

Electrical Interface

Connector: 6 pins Terminal block
Data: Signal Formats
RS485 2-wire
RS422 4-wire
RS232 RTS/CTS 5-wire
RS232 3-wire
Baud Rate : RS422, RS485 up to 1024kbps
RS232 up to 256kbps
Bit Error Rate: Less than 10^{-10}

Standard

EIA/TIA RS485, RS422, RS232

LED Indications

Power, FX Link, DI, DO, Test

Power

Power Input
Standalone : AC, DC options

Power Consumption < 5W

Mechanical

Dimension
155 x 88 x 23mm (D x W x H)
Weight
460g
Physical Characteristics
Housing: Metal
IP Protection
IP30

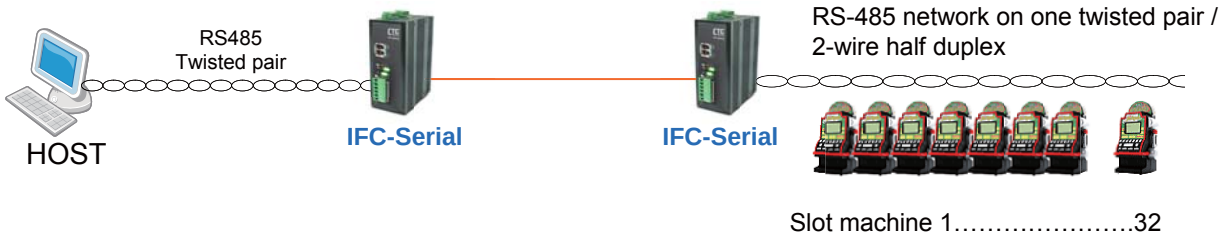
Environmental

Temperature
Operating: 0 ~ 60°C ,
Storage: -10 ~ 70°C
Humidity
10 ~ 90% non-condensing

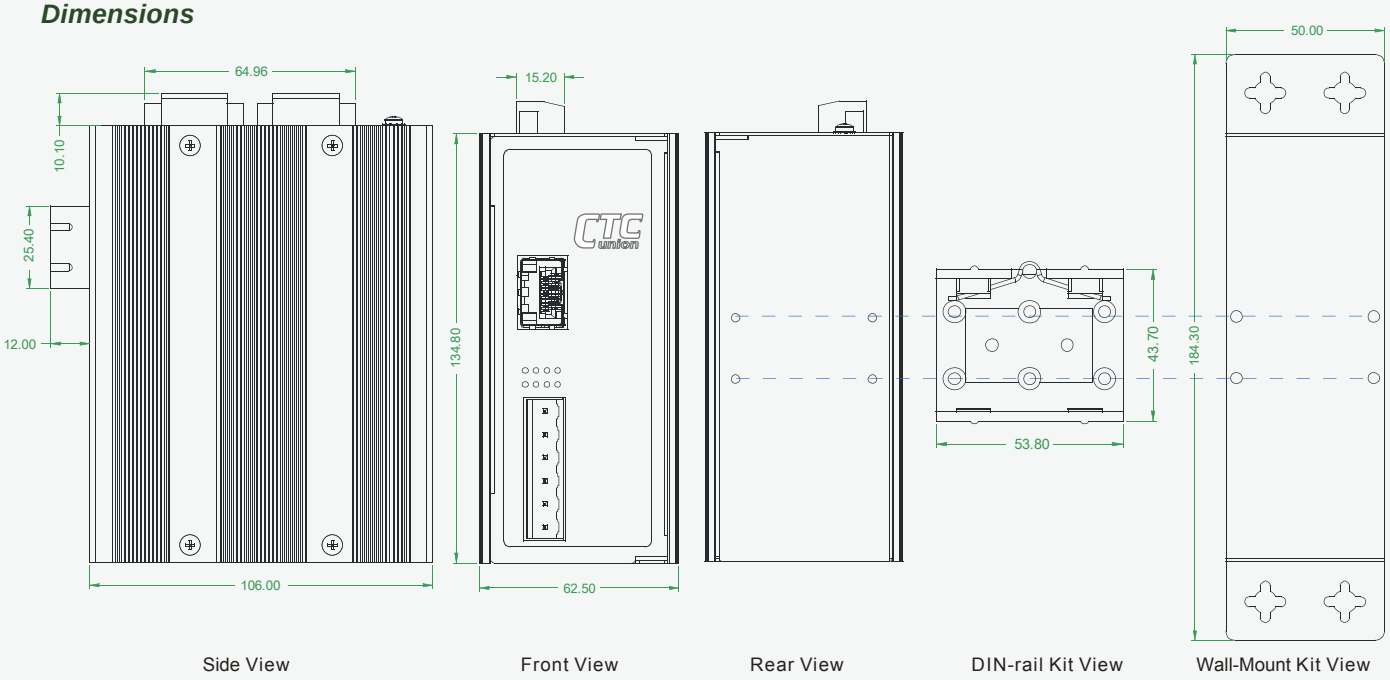
Approvals

Safety
CSA C22.2 No.60950-1, EN60950-1
EMI
FCC Part 15, CISPR(EN55022) ClassA
EMS
EN61000-4-2 (ESD), Level3
EN61000-4-3 (RS), Level3
EN61000-4-4 (EFT), Level3
EN61000-4-5 (Surge), Level3
EN61000-4-6 (CS), Level3
EN61000-4-8
EN61000-4-11
MTBF
401,000 hrs
Warranty
5 years

Applications



Dimensions



Ordering Information

Product Type	Connector Type	Connectivity Distance		Wide Temperature Range
IFC-Serial	SC	002:2km	*20A: WDM 20km A type	X:-40~85°C operating range
IFC-Serial-X	ST	015:15km	*20B: WDM 20km B type	
	FC	030:30km	*40A: WDM 40km A type	*Standard model (IFC-Serial)has 0 to 60°C operating range
		050:50km	*40B: WDM 40km B type	
		080:80km	*60A: WDM 60km A type	
		120:120km	*60B: WDM 60km B type	
			*80A: WDM 80km A type	
			*80B: WDM 80km B type	

Optional Accessories

DRK01: Din Rail mount kit (standardized 35 mm wide)
WMK01:Wall mount kit

Sample: IFC-Serial-SC002
IFC-DRK01

New

RS485/422/232 Fiber Converter

IFC-Serial-X

The IFC-Serial-X is industrial grade fiber media converter that provides a solution to extend asynchronous RS-485 or RS-232 transmission distance up to 2km over multimode fiber or up to 120km over single mode fiber. The converter is equipped with multiple interface circuits for connection to RS-232 or RS-485/422 (2 or 4 wire, full or half duplex). The IFC-Serial-X secures data transmission over EMI resistant fiber at speeds up to 460kbps for RS-232 or up to 1024kbps for RS-485/422. The IFC-Serial reliable industrial design is suitable for keeping your industrial automation applications running continuously. Each IFC-Serial media converter comes with two relay output alarms and two redundant DC power inputs to help prevent damage and loss. The IFC-Serial-X media converter is available in models that support operating temperatures of -40 to 85°C.

Features

- Extend asynchronous serial transmission from 2km to 120km over fiber
- Dip switch selectable data interface for RS232/ 422/ 485
- Dip switch selectable two wires (half duplex) or four wires (full duplex) RS485
- Dip switch selectable three or five wires RS232
- Speeds up to 256kbps for RS232 (Async. mode)
- Speeds up to 1Mbps for RS485/422

Industrial Grade Performance

- Power or Optical Fiber failure alarm by relay output
- Support DIN-Rail & wall mount
- -40 to 85°C operating temperature range
- Redundant dual DC power inputs

Specifications

Optical Interface

Connector : 1x9 (SC, ST, FC) or SFP LC
Data rate : 36.864Mbps
Line coding : Scrambled NRZ
Bit Error Rate : Less than 10^{-10}
Cable type : MM 62.2/125μm, 50/125μm. SM 9/125μm
Distance : MM 2km, SM 15/30/50/80/120km, WDM 20/40/60/80km
Wavelength : MM 1310nm, SM 1310, 1550nm, WDM 1310Tx/1550Rx(type A) 1550Tx/1310Rx(type B)

Electrical Interface

Connector: 6 pins Terminal block
Data: Signal Formats
RS485 2-wire
RS422 4-wire
RS232 RTS/CTS 5-wire
RS232 3-wire
Baud Rate : RS422, RS485 up to 1024kbps
RS232 up to 256kbps
Bit Error Rate: Less than 10^{-10}

Standard

EIA/TIA RS485, RS422, RS232

Certification

CE, FCC, LVD, RoHS

LED Indications

Power, FX Link, DI, DO, Test

Power

Power Input
Standalone : AC, DC options
Power Consumption < 5W

Mechanical

Dimension
155 x 88 x 23mm (D x W x H)
Weight
460g
Physical Characteristics
Housing: Metal
IP Protection
IP30

Environmental

Temperature
Operating: -40 ~ 85°C ,
Storage: -40 ~ 85°C
Humidity
10 ~ 90% non-condensing

Approvals

Safety
CSA C22.2 No.60950-1, EN60950-1
EMI
FCC Part 15, CISPR(EN55022) ClassA
EMS
EN61000-4-2 (ESD), Level3
EN61000-4-3 (RS), Level3
EN61000-4-4 (EFT), Level3
EN61000-4-5 (Surge), Level3
EN61000-4-6 (CS), Level3
EN61000-4-8
EN61000-4-11
MTBF
401,000 hrs

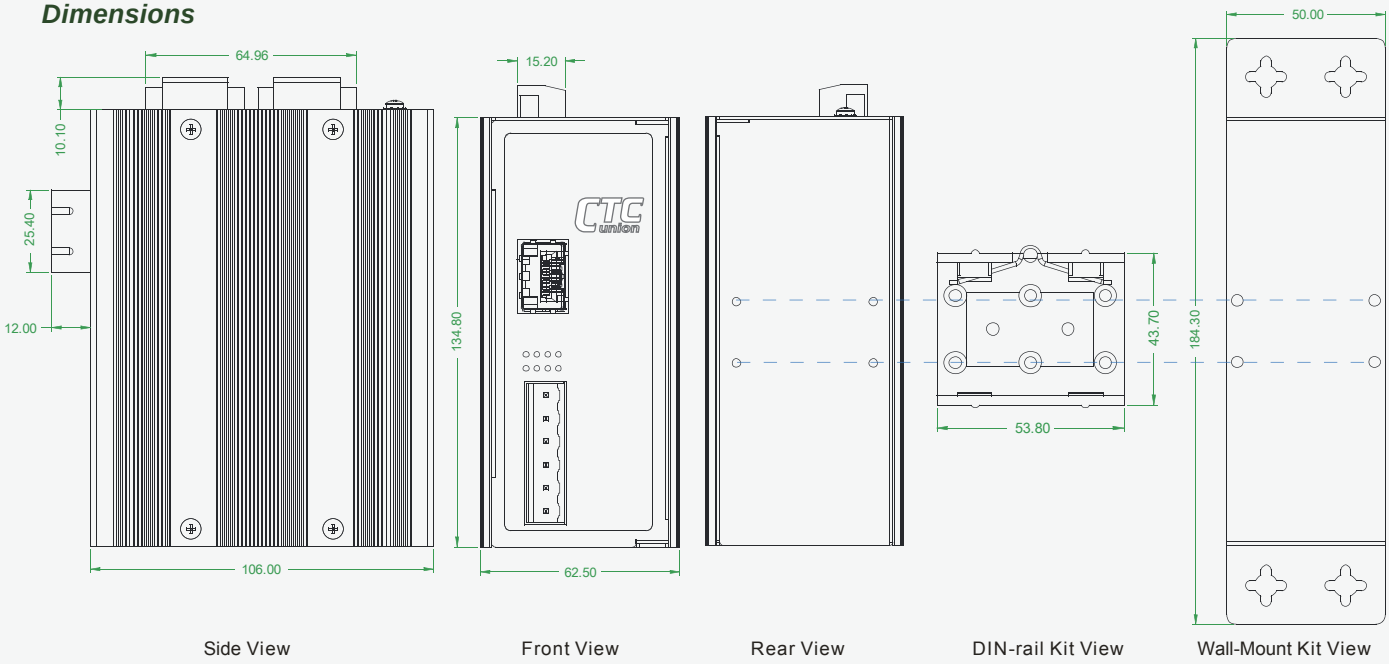
Warranty

5 years

Applications

Slot machine 1……32

Dimensions



Side View | Front View | Rear View | DIN-rail Kit View | Wall-Mount Kit View

Ordering Information

Product Type	Connector Type	Connectivity Distance		Wide Temperature Range
IFC-Serial	SC	002:2km	*20A: WDM 20km A type	X:-40~85°C operating range
IFC-Serial-X	ST	015:15km	*20B: WDM 20km B type	
	FC	030:30km	*40A: WDM 40km A type	*Standard model (IFC-Serial)has 0 to 60°C operating range
		050:50km	*40B: WDM 40km B type	
		080:80km	*60A: WDM 60km A type	
		120:120km	*60B: WDM 60km B type	
			*80A: WDM 80km A type	
			*80B: WDM 80km B type	

Optional Accessories

DRK01: Din Rail mount kit (standardized 35 mm wide)
WMK01:Wall mount kit

Sample: IFC-Serial-X-SC002
IFC-DRK01

New

RS485/232 Daisy Chain Fiber Converter

IFC-Serial/FDC

The IFC-Serial/FDC is industrial grade fiber media converter that provides a dual fiber connection converter solution to extend asynchronous RS-485 or RS-232 transmission distance up to 2km over multimode fiber or up to 120km over single mode fiber. The dual fiber inputs allow connecting multiple devices in a cascade or "daisy chain" fashion as well as creating ring architecture for fiber redundancy. The converter is equipped with multiple interface circuits for connection to RS-232 or RS-485/422 (2 or 4 wire, full or half duplex). The IFC-Serial/FDC secures data transmission over EMI resistant fiber at speeds up to 256kbps for RS-232 or up to 1024kbps for RS-485/422. The IFC-Serial/FDC reliable industrial design is suitable for keeping your industrial automation applications running continuously. Each IFC-Serial/FDC media converter comes with two relay output alarms and two redundant DC power inputs to help prevent damage and loss. The IFC-Serial/FDC media converter is available in models that support operating temperatures of 0 to 60°C.

Features

- Extend asynchronous serial transmission from 2km to 120km over fiber
- Two fiber ports support daisy chain and ring architecture
- Multi-drop operation over fiber ring
- Dip switch selectable data interface for RS232/ 422/ 485
- Dip switch selectable two wires (half duplex) or four wires (full duplex) RS485
- Dip switch selectable three or five wires RS232
- Speeds up to 256kbps for RS232 (Async. mode)
- Speeds up to 1Mbps for RS485/422

Industrial Grade Performance

- Power or Optical Fiber failure alarm by relay output
- Supports DIN-Rail & wall mount
- Redundant dual DC power inputs

Specifications

Optical Interface

Connector : SFP LC
Data rate : 31.104Mbps
Line coding : Scrambled NRZ
Bit Error Rate : Less than 10^{-11}
Cable type : MM 62.2/125μm, 50/125μm. SM 9/125μm
Distance : MM 2km, SM 15/30/50/80/120km, WDM 20/40/60/80km
Wavelength : 1310nm, 1550nm

Electrical Interface

Connector: 6 pins Terminal block
Data: Signal Formats
RS485/422 2-wire , 4-wire
RS232 RTS/CTS 5-wire, 3-wire
RS423 RTS/CTS 5-wire, 3-wire
TTL 3-wire
Baud Rate : RS422, RS485 up to 1024kbps
RS232 up to 256kbps
TTL up to 1024kbps

Standard

EIA/TIA RS485, RS422, RS232

LED Indications

Power, FX-Link1, FX-Link2, Test, Master, Ring TD, RD

Power

Power Input
AC adapter: 100~240VAC to 12VDC
AC 100~240V, DC -18~75V
Power Consumption < 5W

Mechanical

Dimension
DC12 : 160x88x24mm(DxWxH)
AC/DC48/AD: 201x135x35mm(DxWxH)
Physical Characteristics
Housing: Metal
IP Protection
IP30

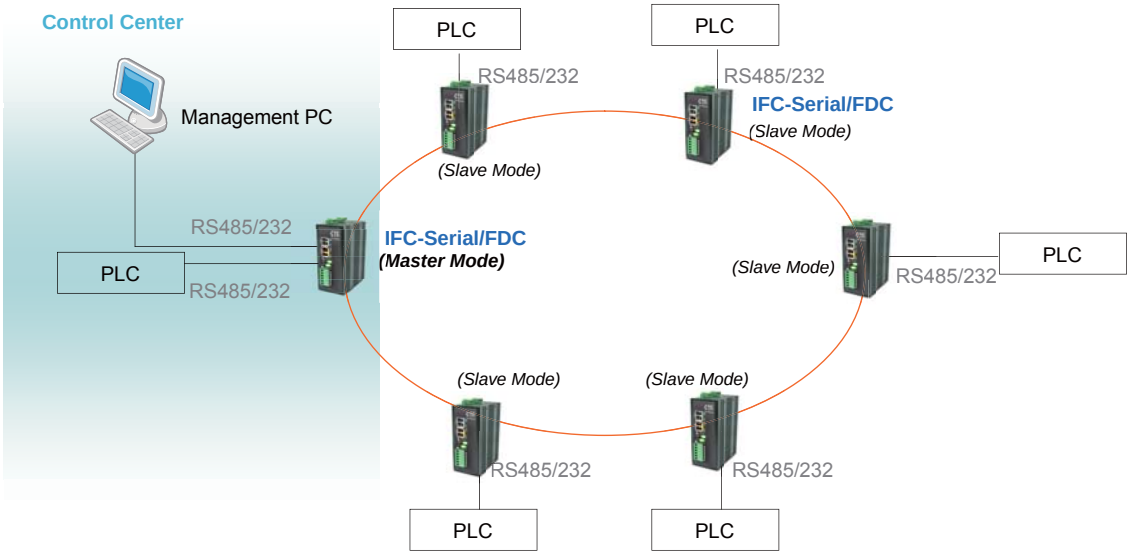
Environmental

Temperature
Operating: 0 ~ 60°C ,
Storage: -10 ~ 70°C
Humidity
0 ~ 90% non-condensing

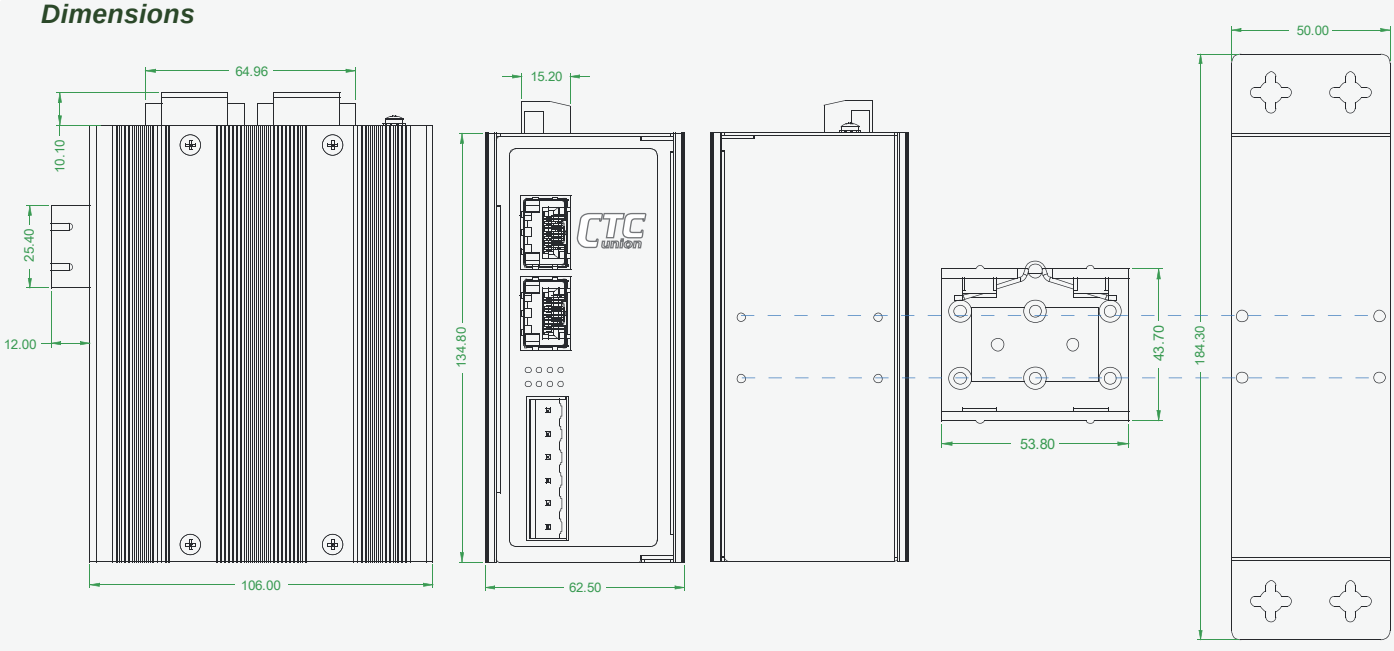
Approvals

Safety
CSA C22.2 No.60950-1, EN60950-1
EMI
FCC Part 15, CISPR(EN55022) ClassA
EMS
EN61000-4-2 (ESD), Level3
EN61000-4-3 (RS), Level3
EN61000-4-4 (EFT), Level3
EN61000-4-5 (Surge), Level3
EN61000-4-6 (CS), Level3
EN61000-4-8
EN61000-4-11
MTBF
401,000 hrs
Warranty
5 years

Applications



Dimensions



Ordering Information

Product Type	Connector Type	Connectivity Distance	Wide Temperature Range
IFC-Serial/FDC	SC	002:2km *20A: WDM 20km A type	X:-40~85°C operating range
IFC-Serial/FDC-X	ST	015:15km *20B: WDM 20km B type	
	FC	030:30km *40A: WDM 40km A type	*Standard model (IFC-Serial/FDC)has 0 to 60°C operating range
		050:50km *40B: WDM 40km B type	
		080:80km *60A: WDM 60km A type	
		120:120km *60B: WDM 60km B type	
		*80A: WDM 60km A type	
		*80B: WDM 60km B type	

Optional Accessories

DRK01: Din Rail mount kit (standardized 35 mm wide)
WMK01:Wall mount kit

Sample: IFC-Serial/FDC-SC002
IFC-DRK01

New

RS485/232 Daisy Chain Fiber Converter

IFC-Serial/FDC-X

The IFC-Serial/FDC-X is industrial grade fiber media converter that provides a dual fiber connection converter solution to extend asynchronous RS-485 or RS-232 transmission distance up to 2km over multimode fiber or up to 120km over single mode fiber. The dual fiber inputs allow connecting multiple devices in a cascade or "daisy chain" fashion as well as creating ring architecture for fiber redundancy. The converter is equipped with multiple interface circuits for connection to RS-232 or RS-485/422 (2 or 4 wire, full or half duplex). The IFC-Serial/FDC-X secures data transmission over EMI resistant fiber at speeds up to 256kbps for RS-232 or up to 1024kbps for RS-485/422. The IFC-Serial/FDC-X reliable industrial design is suitable for keeping your industrial automation applications running continuously. Each IFC-Serial/FDC-X media converter comes with two relay output alarms and two redundant DC power inputs to help prevent damage and loss. The IFC-Serial/FDC-X media converter is available in models that support operating temperatures of -40 to 85°C.

Features

- Extend asynchronous serial transmission from 2km to 120km over fiber
- Two fiber ports support daisy chain and ring architecture
- Multi-drop operation over fiber ring
- Dip switch selectable data interface for RS232/ 422/ 485
- Dip switch selectable two wires (half duplex) or four wires (full duplex) RS485
- Dip switch selectable three or five wires RS232
- Speeds up to 256kbps for RS232 (Async. mode)
- Speeds up to 1Mbps for RS485/422

Industrial Grade Performance

- Power or Optical Fiber failure alarm by relay output
- Supports DIN-Rail & wall mount
- -40 to 85°C operating temperature
- Redundant dual DC power inputs

Specifications

Optical Interface

Connector : SFP LC
Data rate : 31.104Mbps
Line coding : Scrambled NRZ
Bit Error Rate : Less than 10^{-11}
Cable type : MM 62.2/125μm, 5/125μm.
SM 9/125μm
Distance : MM 2km, SM 15/30/50/80/120km,
WDM 20/40/60/80km
Wavelength : 1310nm, 1550nm

Electrical Interface

Connector: 6 pins Terminal block
Data: Signal Formats
RS485/422 2-wire , 4-wire
RS232 RTS/CTS 5-wire, 3-wire
RS423 RTS/CTS 5-wire, 3-wire
TTL 3-were
Baud Rate : RS422, RS485 up to 1024kbps
RS232 up to 256kbps
TTL up to 1024kbps

Standard

EIA/TIA RS485, RS422, RS232

LED Indications

Power, FX-Link1, FX-Link2, Test, Master, Ring
TD, RD

Power

Power Input
AC adapter: 100~240VAC to 12VDC
AC 100~240V, DC -18~75V
Power Consumption < 5W

Mechanical

Dimension
DC12 : 160x88x24mm(DxWxH)
AC/DC48/AD: 201x135x35mm(DxWxH)
Weight
460g
Physical Characteristics
Housing: Metal
IP Protection
IP30

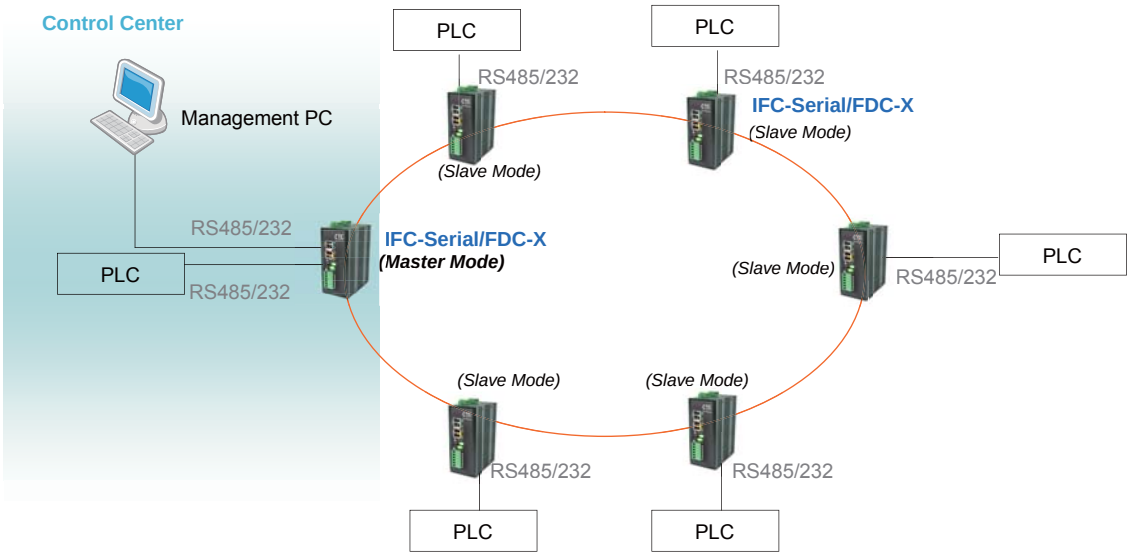
Environmental

Temperature
Operating: -40 ~ 85°C ,
Storage: -40 ~ 85°C
Humidity
0 ~ 90% non-condensing

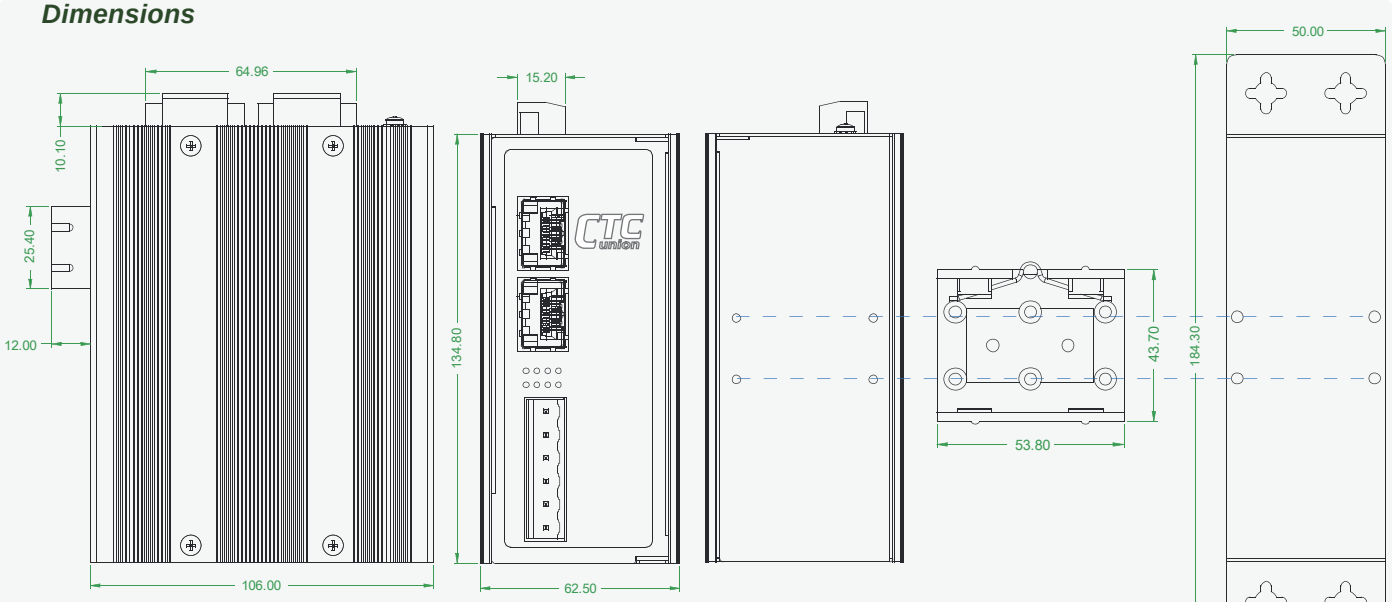
Approvals

Safety
CSA C22.2 No.60950-1, EN60950-1
EMI
FCC Part 15, CISPR(EN55022) ClassA
EMS
EN61000-4-2 (ESD), Level3
EN61000-4-3 (RS), Level3
EN61000-4-4 (EFT), Level3
EN61000-4-5 (Surge), Level3
EN61000-4-6 (CS), Level3
EN61000-4-8
EN61000-4-11
MTBF
401,000 hrs
Warranty
5 years

Applications



Dimensions



Ordering Information

Product Type	Connector Type	Connectivity Distance	Wide Temperature Range
IFC-Serial/FDC IFC-Serial/FDC-X	SC ST FC	002:2km *20A: WDM 20km A type 015:15km *20B: WDM 20km B type 030:30km *40A: WDM 40km A type 050:50km *40B: WDM 40km B type 080:80km *60A: WDM 60km A type 120:120km *60B: WDM 60km B type *80A: WDM 80km A type *80B: WDM 80km B type	X:-40~85°C operating range *Standard model (IFC-Serial/FDC)has 0 to 60°C operating range

Optional Accessories

DRK01: Din Rail mount kit (standardized 35 mm wide)
WMK01:Wall mount kit

Sample: IFC-Serial/FDC-X-SC002
IFC-DRK01

Single Port IP to Serial Device Server

STE100A/RS232

The IP Serial Server provides the serial device server for Windows hosts to control serial devices located virtually anywhere through a TCP/IP or UDP/IP connection. The IP Serial Server has the asynchronous serial port connection on one side, and a 10/100 Mbps Ethernet connection on the other side. It connects devices, such as CNC, weight scales, and scanners. Applications include industrial/factory automation, automatic warehouse control, and hospital/laboratory automation. The IP Serial Server Windows driver is designed to control the IP Serial Server devices. The driver installs a virtual COM on Windows which maps the virtual COM port to the IP address of the IP Serial Server device across the network, enabling the Windows applications to access remote serial devices over Ethernet. IP Serial Server can function as a UDP or a server or client for TCP connection. The application scenarios are direct IP mode, virtual COM mode, and paired mode. When in the paired mode one IP Serial Server must set as a client and the other must set as a server in TCP connection.

Features

- 10/100Mbps Ethernet port
- 230.4kbps serial interface
- TCP Server, TCP client, Virtual com mode, UDP
- Supports for DHCP, HTTP, ICMP, ARP, IP, UDP, TCP
- Easy to use with Windows utility
- Configuration by web browser
- Compack size 53x85x21(mm)
- Low power consumption with single + 12V to +48V input

Specifications

General

LED: Ready, TP Link/Act, RS232 Tx/Rx
Push button for Load Default Configuration
OS supported: Windows XP/2000/2003/2008/VISTA/WIN7

Serial Interface RS-232

Serial Connector DB-9 male

Baudrate 110 to 230.4Kbps

Data bits 5, 6, 7, 8

Stop bits 1, 1,5 for Data bits 5 mode; 1, 2 for data bits 6, 7, 8 mode

Parity None, Even, Odd

Flow Control None, RTS/CTS

Data Packing Delimiter 1,2

LAN Interface

RJ-45 connector, IEEE802.3 10/100BaseT, Auto-detecting, Full/Half-duplex

Communication Modes

TCP Server, TCP Client, Virtual COM mode, UDP

Protocols

TCP, UDP, IP, ARP, ICMP, HTTP, DHCP, ICMP
Client requests connection at Power up
TCP Inactivity Time (TCP alive time)

Management

Web pages, Firmware upgrade

Security Password Access

Power AC Adapter, 12VDC output

Operating Temperature 0 to 60 °C

Storage Temperature -10 to 70 °C

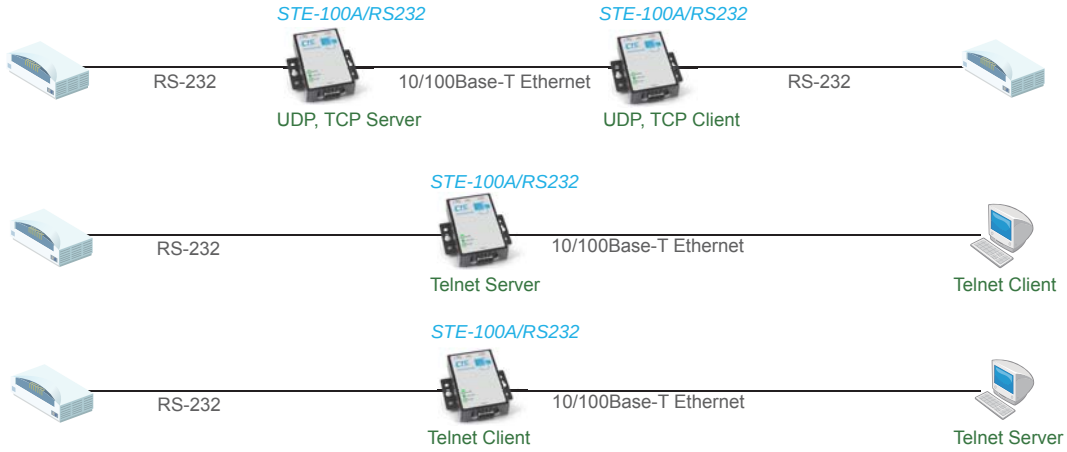
Humidity 0 – 90% non-condensing

DIN rail mount Yes

Panel mount Yes

Dimensions 53 x 85 x 21mm(WxDxH)

Certifications CE, FCC



Ordering Information

STE100A/RS232 Single port IP to Serial/RS-232 Device Server

New

Single Port IP to Serial Device Server

STE100A/RS485

The IP Serial Server provides the serial device server for Windows hosts to control serial devices located virtually anywhere through a TCP/IP or UDP/IP connection. The IP Serial Server has the asynchronous serial port connection on one side, and a 10/100 Mbps Ethernet connection on the other side. It connects devices, such as CNC, weight scales, and scanners. Applications include industrial/factory automation, automatic warehouse control, and hospital/laboratory automation. The IP Serial Server Windows driver is designed to control the IP Serial Server devices. The driver installs a virtual COM on Windows which maps the virtual COM port to the IP address of the IP Serial Server device across the network, enabling the Windows applications to access remote serial devices over Ethernet. IP Serial Server can function as a UDP or a server or client for TCP connection. The application scenarios are direct IP mode, virtual COM mode, and paired mode. When in the paired mode one IP Serial Server must set as a client and the other must set as a server in TCP connection.

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- 230.4kbps serial interface
- TCP Server, TCP client, Virtual com mode, UDP
- Support for DHCP, HTTP, ICMP, ARP, IP, UDP, TCP
- Easy to use with Windows utility
- 2 Wire(half duplex) or 4 Wire(full duplex)RS-485
- Configuration by web browser
- Compack size 53x85x21(mm)
- Low power consumption with single + 12V to +48V input

Specifications

General

LED: Ready, TP Link/Act, Data Tx/Rx
Push button for Load Default Configuration
OS supported: Windows XP/2000/2003/2008/VISTA/WIN7

Serial Interface RS-485, RS-422 (2 or 4 Wire RS-485; 4 Wire RS-422)
Serial Connector Terminal Block
Baudrate 110 to 230.4Kbps
Data bits 5, 6, 7, 8
Stop bits 1, 1,5 for Data bits 5 mode; 1, 2 for data bits 6, 7, 8 mode
Parity None, Even, Odd
Flow Control Full/ Half Duplex
Data Packing Delimiter 1,2

LAN Interface

RJ-45 connector, IEEE802.3 10/100BaseT, Auto-detecting, Full/Half-duplex

Communication Modes

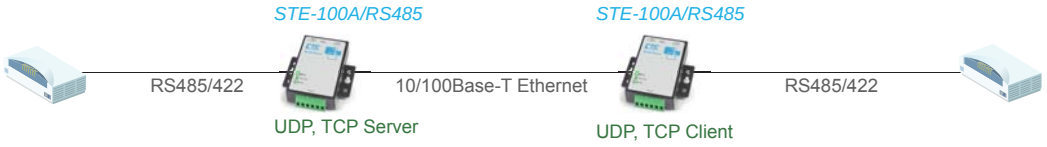
TCP Server, TCP Client, Virtual COM mode, UDP

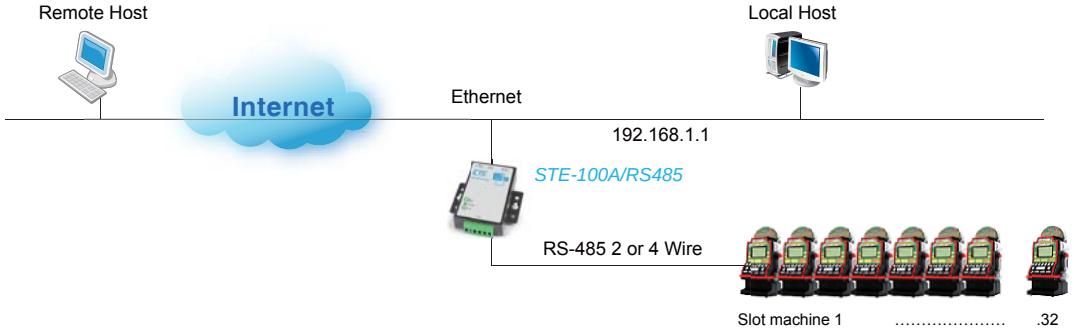
Protocols

TCP, UDP, IP, ARP, ICMP, HTTP, DHCP, ICMP
Client requests connection at Power up
TCP Inactivity Time (TCP alive time)

Management

Web pages, Firmware upgrade
Security Password Access
Power AC Adapter, 12VDC output
Operating Temperature 0 to 60 °C
Storage Temperature -10 to 70 °C
Humidity 0 – 90% non-condensing
DIN rail mount Yes
Panel mount Yes
Dimensions 53 x 85 x 21mm(WxDxH)
Certifications CE, FCC





Ordering Information

STE100A/RS485 Single port IP to Serial/RS-485 Device Server