Conettix ITS-D6686 Ethernet Network Adapters

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Invented for life

▶ 10Base-T/100Base-T network connection for IP account monitoring and central station automation

▶ Certified IPv6 Ready by the IPv6 Forum

▶ Two DB9 serial interfaces provide connection to D6600/D6672

▶ Light emitting diodes (LEDs) provide status and activity

▶ Supports 128-bit to 256-bit AES (Rijndael) encryption

The Conettix ITS-D6686 Ethernet Network Adapters (ITS-D6686-INTL and ITS-D6686-UL) are used to connect the Conettix D6600 Communications Receiver/Gateway to IPv6 and IPv4 networks (LAN/WAN/Internet). The adapter allows the D6600 to process messages to and from most networks using User Datagram Protocol/Internet Protocol (UDP/IP). Conettix ITS-D6686 Ethernet Network Adapters are compatible with both IPv6 and IPv4 networks. A minimum of one adapter is required for each D6600. The two serial ports allow for a variety of installation options including Network Failover Solution.

Functions

Network Failover Solution
A Conettix System with two D6600 receivers and two ITS-D6686 adapters can be used to allow for a redundant backup in the event of first system failure. Each adapter has two serial ports that allow it to be connected to a primary and backup receiver at the same time. In this configuration using the D6200 software, when the primary receiver is updated the backup receiver will also be updated. Each adapter also supports an alternate MAC Address that can be used to switch between adapters on primary and

backup systems without any network problems. Refer to the *Conettix D6600 Systems Guide - Network Communications* for details.

Certifications and approvals

ℹ️ **Notice**
Install the Conettix D6600 Communications Receiver/Gateway in accordance with NFPA 70, NFPA 72 and the local Authority Having Jurisdiction (AHJ). The Conettix ITS-D6686-UL Ethernet Network Adapter is suitable for Central Station Protective Signaling when it is installed and used in compliance with NFPA 72 and ANSI/NFPA 70. Installation limits for Digital Alarm Communicator Receivers (DACR) are under the jurisdiction of the user's local authority.

ℹ️ **Notice**
For UL Listed Fire Installations, equipment between Ethernet Interface Modules and the ITS-D6686-UL is required to be UL Listed Information Technology Equipment.

Region	Certification	
USA	UL	
	UL	UL 1610 - Central Station Burglar Alarm Units
	UL	UL 864 - Standard for Control Units and Accessories for Fire Alarm Systems
	CSFM	7300-1615:0179 FIRE ALARM CONTROL UNIT ACCESSORIES/MISC. DEVICES
Canada	ULC	
	ULC	CAN/ULC S559 - Fire Signal Receiving Centres and Systems

Installation/configuration notes

Compatibility Information

Receivers:	Conettix D6600 Communications Receiver/Gateway

Location and Enclosures
The ITS-D6686 adapters must be installed in the same room as the D6600 receiver and be within 15 m (50 ft) of the D6600.
For UL installations, the ITS-D6686-UL must be installed in the same rack as the D6600 and be within 6 m (20 ft) of the D6600.

Parts included

ITS-D6686-INTL

Quantity	Component
1	ITS-D6686-INTL Ethernet Network Adapter
1	Plug-in power supply with adapters
1	DB9 F/F null modem serial cables (1.83 m [6 ft])
1	Literature – Installation Guide

ITS-D6686-UL

Quantity	Component
1	ITS-D6686-UL Ethernet Network Adapter
1	Plug-in power supply
2	DB9 F/F null modem serial cables (1.83 m [6 ft])
1	Literature – Installation Guide

Technical specifications

Electrical

Power Input	
INTL model:	AC nominal operating range: 100 VAC to 240 VAC, 50 Hz/60 Hz, 400 mA maximum
UL model:	AC nominal operating range: 120 VAC, 60 Hz, 150 mA maximum

> **ⓘ Notice**
> An uninterrupted power supply (UPS) is required for use with the ITS-D6686-UL when used for UL Fire (UL1481) Protective Signaling Systems. A 24 hr. minimum UPS standby power supply is required for UL Certification.

Environmental

Temperature (operating):	0°C to +50°C (+32°F to +122°F)
Temperature (storage):	-40°C to +85°C (-40°F to +185°F)

Mechanical

Unit Dimensions (not including mounting tabs):	9.5 cm x 7.3 cm x 2.3 cm (3.75 in. x 2.9 in. x 0.9 in.)
Weight:	0.26 kg (0.6 lb)
Protocols Supported:	ARP, UDP/IP, TCP/IP, Telnet, ICMP, SNMP, DHCP, TFTP, HTTP, and BOOTP
Serial Connectors:	Two DB9M DTE serial ports
Network Connectors:	One RJ45 10BASE-T or 100BASE-TX Ethernet port
Ethernet Cable:	Category 5 or better unshielded twisted pair installed in the same enclosure/rack as the D6600. For UL installations a maximum length of 6 m (20 ft) is allowed.
RS-232 Cable:	Installed in the same room as the D6600; maximum length 15 m (50 ft). For UL installations, installed in the same rack as the D6600; within 6 m (20 ft).
Management:	HTTP (internal web server) Telnet login DeviceInstaller software
System Software:	Flash ROM standard. Downloads from a TCP/IP host (TFTP) or over serial port.

Diagnostic LEDs:	On top of unit: Power / Diagnostic (Blue) RX Serial 1 Activity LED (Green) TX Serial 1 Activity LED (Yellow) RX Serial 2 Activity LED (Green) TX Serial 2 Activity LED (Yellow) On the RJ45 Ethernet connector: Ethernet Link LED on the left (Bi-color, 10 Mbps = Yellow, 100 Mbps = Green) Ethernet Activities LED on the right (Bi-color, Half Duplex = Yellow, Full Duplex = Green)
Compatibility:	Ethernet: v2.0/IEEE 802.3 Conettix D6600 Communications Receiver/Gateway

Trademarks

All hardware and software product names used in this document are likely to be registered trademarks and must be treated accordingly.

Ordering information

Conettix ITS-D6686-INTL Ethernet Network Adapter
Provides a 10/100 Base T network interface connection for IP account monitoring and central station automation with Conettix D6600 Communications Receiver/Gateway. Supports IPv6/IPv4 dual stack and up to 256-bit AES encryption.
Order number **ITS-D6686-INTL**

Conettix ITS-D6686-UL Ethernet Network Adapter
Order number **ITS-D6686-UL**