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Conitel ASYNC ADAPTER – Converts 32 bit Conitel SCADA Protocol to Asynchronous Data



- Converts 32-bit Conitel SCADA protocol (L&N Conitel) to Asynchronous Data
- External analog to digital conversion with the DCB 202T
- Internal 56/64 KBPS DSU option
- Composite protocol is Asynchronous Data
- Simple to configure
- Cost effective

DESCRIPTION

The DCB Conitel ASYNC ADAPTER converts 32 bit Conitel SCADA protocol to Asynchronous Data. The composite output of the Conitel ASYNC ADAPTER is asynchronous data protocol. The CONITEL ASYNC ADAPTER converts each 32-bit protocol word into an ASCII byte oriented composite. The Conitel ASYNC ADAPTER allows migration of Conitel SCADA from the ever more expensive and hard to order analog phone lines to digital asynchronous data circuits, including DDS, radio links, and Ethernet/IP networks using the DCB EtherPath or EtherPoll.

The Conitel ASYNC ADAPTER can be used in conjunction with the DCB 202T modem for connection to RTU devices with built in modems. The transmit output of the 202T can be set to -16 dBm for connection to built in modems that are sensitive to high receive levels.

The Conitel ASYNC ADAPTER is easy to set up. A 9600 bps RS232 management port can be connected to a dumb terminal or a PC running a terminal program. Menus are in clear, concise English.

About the Conitel Protocol:

Conitel message blocks are composed of 31 bits plus a message synchronization “start bit” at the front of the first message block and an End of Message (EOM) bit at the end of each block. The EOM bit will be a 1 if it is the last bit in the last block. The EOM bit will be a 0 if it is the last bit in a block and more data blocks will be sent.

The master station initiates all communications. Master-to-remote messages are always a single block. Remote-to-master messages consist of one or more blocks. Prior to transmission of the first block in either direction, a “pre-transmission” mark is transmitted. The pre-transmission time is adjustable by the user. The pre-transmission enables the receiver to look for the start of data. Following the pre-transmission mark, a space is transmitted for a single bit time. The transition from mark to space is used to synchronize the receiver. This method is similar to the start bit of async serial byte oriented data. The Conitel protocol however sends the remaining bits of the message with no further synchronization bits.

SPECIFICATIONS

General

Rates: Async port to 38.4 Kbps (1200 bps default)
Application: 32 bit Conitel SCADA protocol to ASCII
Supports composite rate to 115.2 Kbps

Indicators (front panel) and Controls

Power, Activity, Line Error, Modem Ready, Port 1 Setup, Loopback
Front panel push button for loopback
Field upgradeable firmware
Setup via the rear panel setup port or the front panel "Port One Setup" switch

Data Ports

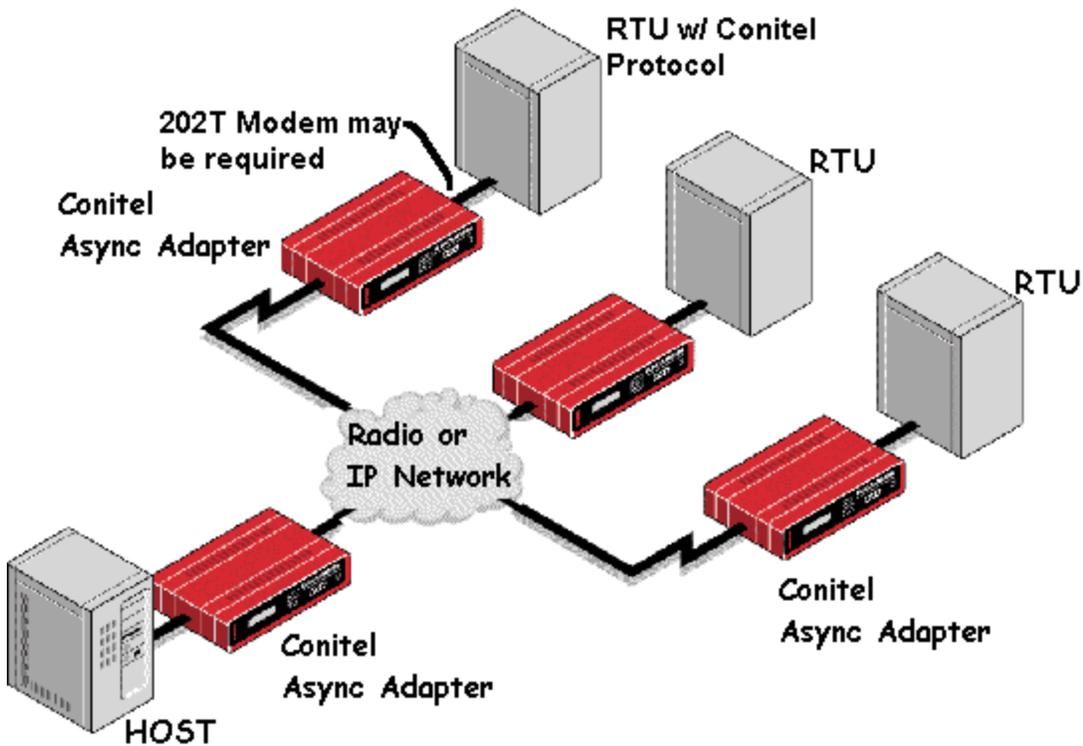
RTU Port Interface: RS-232, V.24, speeds to 38,400 bps
Composite to 128 kbps, or internal DSU
Connectors: RJ-45 per EIA/TIA 561 pinouts

Physical/Electrical

Power requirements: 120 VAC, wall mount power
Supply: 220 VAC also available. DC 12, 24, 48 and 125 volt supplies also available
-40 to +70 C operation, < 95% humidity non-condensing
10 1/4" x 9 3/4" x 2 1/4", optional rack mount shelf

One pound

Application



Rear View of ASYNC ADAPTER

