

# Data Connect V.3600UI Series

The Data Connect V.3600UI series is a series of high performance, synchronous and asynchronous, full-duplex, multi-standard standalone or rackmounted modem. They are designed for use on 2-wire dial-up and 2/4-wire leased-line circuits

The Data Connect V.3600UI series is fully compliant with ITU-T V.34 as well as being compatible with ITU-T recommended V.32bis/V.32, V.22bis, V.23 and V.21 international standards while operating at 33600, 31200, 28800, 26400, 24000, 21600, 19200, 16800, 14400, 12000, 9600, 7200, 4800, 2400, 1200, and 300 bits per second.

In V.34 mode the Data Connect V.3600UI series provides full-duplex operation at up to 33.6Kbps on a 2/4-wire PSTN line, with features like line probing, symbol rate, and carrier frequency automatic selection. A range of performance enhancing techniques are available for V.34 mode, including adaptive precoding, adaptive pre-emphasis, non-linear encoding (warping), constellation expansion, mulit-dimensional trellis coding, transmission power back-off (power drop), V.8 standard modem initialization, and shell mapping.

An in-band secondary channel allows the user to monitor and control the remote site unit. The Data Connect V.3600UI series also offers auto callback and leased -line security checks in addition to the dial-up security checks.

The Data Connect RM16MUI series can accomodate up to 16 modem cards with 16 ports, control unit and single or dual redundant power unit, it also has dual redundant power supply which means if one power does fail the other one is capable of powering the entire rack.



## Key Features

Fully compatible with ITU-T V.34+/ V.34/ V.32bis/ V.32/ V.26bis/ V.22bis/ V.22/ V.23/ V.21/ V.24/ V.28/ V.25bis/ V.54/ V.52/ V.42/ V.42bis/ V.14/ V.13/ V.8 and Bell 212A/103

19" rack accomodates up to 16 modem cards with hot-swap and profile copy functions

Achieve throughput up to 115200bps V.13 simulated carrier in half-duplex

MNP4®, V.42 error correction

MNP5®, V.42bis data compression

Extended AT and ITU-R V.25bis command set

Leased line dial back-up and restore in manual or auto mode

Auto fallback and fall forward

Remote configuration via secondary channel

Front panel lock and password protect

Password & callback security

Diagnostic capabilities: Analog loopback, digital loopback and remote, digital loopback (with pattern or not); BERT test pattern using 511

Auto or manual dialing/answer

Front panel configuration via fubber switches and LCD

Front panel key reset function

G3FAX send/receive compatible with EIA-578 Class 1 FAX command (optional)



# General Specifications

## Compatibility

V.34+: 33.6/31.2 Kbps SM (4D TCM)  
V.34+: 28.8/ 26.4/ 24/ 21.6/ 19.2/ 16.8/ 14.4/  
12/ 9.6/ 7.2/ 4.8/ 2.4 Kbps SM (4D TCM)  
V.32bis: 14400/12000/7200bps TCM  
V.32: 9600bps TCM, 9600/4800 bps QAM  
V.26bis: 2400/1200bps QAM, 1200bps  
BPSK  
V.22/Bell 212A: 1200bps DPSK  
V.23: 1200/75, 600/75bpsFSK  
V.21/Bell 103:300 bps FSK

## Symbol Rate (Baud) and Carrier Frequency(Hz)

2400 Baud- 1600/ 1800 Hz  
2800 Baud- 1680/ 1867 Hz  
3000 Baud- 1800/ 2000 Hz  
3200 Baud- 1829/ 1920 Hz  
3429 Baud- 1959 Hz

## Data Format

Synchronous or Asynchronous  
Total bit length: 8, 9, 10, 11

## Data Speed

Asynchronous- 75/ 300/ 600/ 1200/ 2400/  
4800/ 7200/ 12000/ 14400/ 16800/ 19200/  
21600/ 2400/ 26400/ 28800/ 31200/ 33600/  
38400/ 57600/ 76800/ 115200 bps  
Synchronous- 1200/ 2400/ 4800/ 7200/  
9600/ 12000/ 14400/ 16800/ 19200/ 21600/  
24000/ 26400/ 28800/ 31200/ 33600 bps

## DTE Interface

EIA RS-232C, ITU-T V.24/V.28

## Line Requirement

Dial-up line, 2/4-wire leased line

## Transmit Level

Dial-up line: 0 to -15 dBm; Leased line: 0 to -31 dBm

## Receive Dynamic Range

-4 to -43 / 0 to -33 dBm

## Equalization

Automatic adaptive EQ

## Call Progress Monitoring

Dial tone, Ring, Ringback, Busy and Backup dial

## Line Status Monitoring

Tx level, Rx level, S/N ratio, EQM value, delay, phase jitter, frequency offset, far-end echo, DTE format, retrain count, Tx baud rate, Rx baud rate, Tx carrier, Rx carrier, Tx speed, Rx speed, Tx power back-off level, Interface lead monitoring

## Memory

Non-volatile; 2 user profiles and 10 phone numbers with 30 characters each

## Line Interface

RJ-11 for dial-up, JM8 (like RJ45) for leased line

## Transmit Clock

Internal, Loopback, or External

## Dialing Command and Type

Extended AT and V.25bis using Tone/Pulse/Mixed

## Flow Control

RTS/CTS, XON/XOFF, CTS only

## Mechanical Specifications

Enclosure dimensions:

7.1"w X 10.3"l X 1.9"h; 4.2 lbs

Rackmount dimensions:

18.9"w X 14.9"l X 8.7"h

## Environment Specifications

Temperature:

Operation: 0° to +50°C

Storage: 0° to +50°C

Humidity:

Up to 95% (non-condensing)

## Model Numbers and Optional Features

DCE/V.3600UI-SA: Standalone with 115-230 VAC power

DCE/V.3600UI-DC: Standalone with 48VDC power

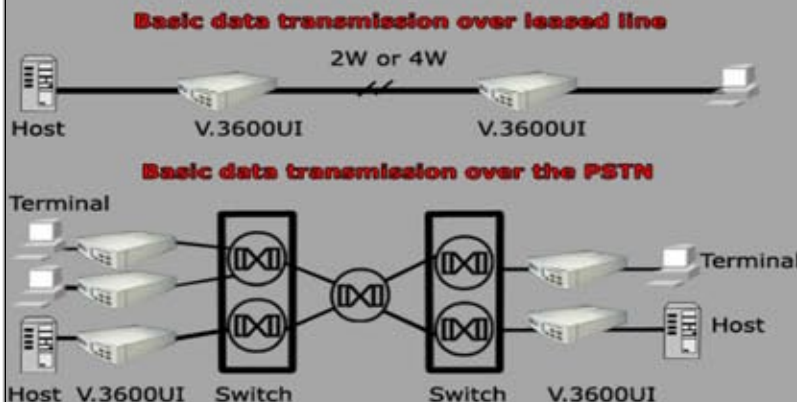
DCE/V.3600UI-24VDC: Standalone with 24 VDC power

DCE/V.3600UI-12VDC: Standalone with 12VDC power

DCE/V.3600UI-RM: RM16M rackmountable modem card

DCE/RM26M27UI-AC: 16 slot AC power chassis with network controller

DCE/RM26M27UI-DC: 16 slot DC power chassis with network controller



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