

ASTER 5



FEATURES & BENEFITS

- > V.34+ 33,600 BIT/S ON STANDARD SWITCHED TELEPHONE LINES (PSTN) AND 2/4 WIRE LEASED LINES
- > SUPERIOR TELINDUS DSP TECHNOLOGY FOR OPTIMUM LINE PERFORMANCE
- > FLASH MEMORY FOR FUTURE PROOF SOLUTION
- > FULL DUPLEX ASYNCHRONOUS AND SYNCHRONOUS DATA COMPRESSION
- > ADVANCED PSTN BACKUP SCENARIOS UPON LEASED LINE FAILURE
- > HACKER-PROOF PSTN SECURITY ACCESS CONTROL
- > OPTIONAL DES ENCRYPTION
- > MULTIPLE MANAGEMENT FACILITIES
- > BACKWARDS COMPATIBLE WITH ASTER 4 SERIES

> THE ASTER 5 SERIES USES THE SUPERIOR TELINDUS DSP TECHNOLOGY TO ACHIEVE DATA-TRANSFER RATES (UNCOMPRESSED) OF UP TO 33.6 KBPS ON LEASED LINES AND PSTN DIAL-UP CIRCUITS WITH AUTOMATIC OR USER-CONTROLLED (E.G. BY THE NETWORK MANAGEMENT SYSTEM) FALLBACK BASED ON CUSTOM-DEFINED LINE-QUALITY THRESHOLDS. THE MODEM IS DESIGNED FOR BOTH 2-WIRE AND 4-WIRE ANALOGUE LINES.

The Aster 5 can even further increase the user data rate by using powerful compression algorithms. Both the V.42bis and the MNP5 algorithm are supported. It provides not only regular asynchronous compression but also synchronous compression on HDLC frames (such as LAPB, LAPF, and SDLC) as a unique standard feature. This gives higher throughput and faster response times when interconnecting Frame Relay, X.25, or SNA equipment.

An optional hardware DES encryption model ensures data confidentiality, which makes the Aster 5 ideal for demanding security environments such as those of financial institutions, government agencies, and leading-edge research and development enterprises.

Flexible backup scenarios of the analogue leased line through the PSTN network guarantee the reliability of the network. To prevent unauthorized access to the network, high-level security features are included to protect the PSTN port. Access security on this high-performance modem includes fully encrypted password exchange, call-back, and dial backup security.

For large concentration sites, rack-mount versions are mounted in a standard 19" card nest and can offer densities of 30 modems per nest.

The Aster 5 is designed for integration into demanding network environments and can be controlled by the complete set of network maintenance and management tools as described in the Telindus Access Products catalogue.

LINE INTERFACE

- > RJ12 2 wire /4 wire Leased Line (TT)
- > RJ12 PSTN (TT)
- > Screw connections for 2 wire LL + PSTN or 4 wire LL (CV)
- > Leased Line output level: -15 .. 0 dBm
- > PSTN output level: -15 .. -10 dBm
- > Maximum input level Leased Line: -3 dBm
- > Maximum input level PSTN: -10 dBm
- > Impedance: 600 Ohm, resistive or complex, according to CTR21
- > Echo canceller: up to 1.3 sec (2 satellite hops)

USER INTERFACE

- > LCD screen: 2x24 characters (TT)
- > Keyboard: up, down, left, right, esc, enter (TT)
- > Easyconnect handheld terminal with LCD and keyboard (CV)

CONTROL PORT

- > Auxiliary port for management through TMA®, TML, VT100 or Easyconnect handheld terminal
- > 9 pins Sub-D DCE, 9600 bps, 8+N

MODULATIONS

- > Data Modulations: V.34, V.33, V.32bis, V.32, V.29(4W), V.22bis, V.22, V.23, V.21, Bell121A, Bell 103
- > PSTN interoperability: V.8, Auto-Mode
- > MNP1..MNP4 Error Correction: Max window size: 14
Max frame-size: 256 bytes
- > V.42 Error correction: Support for SREJ and MSREJ
Max window size: 22
Max frame-size: 192 bytes
- > Compression: MNPs, V.42bis

DTE INTERFACE

- > V.24/V.28 DCE 25 pins sub-D connector (on V.24 models)
- > RS-530 DCE interface available for operation with RS-530, RS-530A, X.21, V.35 or V.36 based applications (on RS-530 models)
- > DTE speeds for buffered mode: 0.3, 1.2, 2.4, 4.8, 9.6, 19.2, 24.0, 32.0, 38.4, 40.0, 48.0, 57.6, 64.0, 72.0, 80.0, 96.6, 115.2, 128.0 kbps
- > Flow control: CTS, CTS/RTS, Xon/Xoff
- > RTS/DCD simulated switched carrier operation according to V.13

SYNCHRONOUS OPERATION

- > Modem Clocking: internal, external, slave/receive, X.21 internal

ASYNCHRONOUS OPERATION

- > V.14 supporting 8/9/10/11 bits/char.
- > Automatic speed and parity detection for Hayes AT and V.25bis (7+even/odd, 7+mark/space, 8+none, 8+even/odd)
- > Max buffer size: 8000 bytes

SYNCHRONOUS COMPRESSION OPERATION (FOR HDLC FRAMED PROTOCOLS)

- > NRZ/NRZI encoding
- > Max HDLC frame size: 1550 bytes (includes CRC16/32)
- > Max number of HDLC frame buffers: 30

AUTOMATIC DIALLER

- > Dialler protocol: Hayes AT set, V.25bis
- > Dial format: Asynchronous, HDLC, Bisync ASCII & EBCDIC, BSC ASCII & EBCDIC
- > Memory for 200 telephone numbers
- > Automatic PSTN dial-backup in case of Leased Line failure*

FEATURES

- > Flash upgradeable firmware and Digital Signal Processing software
- > Full control over remote modem with local keyboard and LCD
- > Password exchange and call-back security on PSTN interface
- > Access passwords list
- > Analogue line parameter monitoring on LCD
- > Free local maintenance software (TMA) available on Telindus website
- > Free Flash download program (TML) available on Telindus website
- > Optional model with 56 bit key DES data encryption
- > Customised interface signalling GPIN, GPOUT
- > V.54 testloops: AL,RDL,DL and integrated 511 BER generator with error count

MECHANICAL DATA (H X W X D)

- > Desktop versions (TT): 45 x 220 x 215 mm weight: 1 kg
- > Rack-mount version (CV) (CN4): 235 x 25 x 335 mm weight: 1 kg (2 modems/card)

POWER REQUIREMENTS

- > Desktop versions: 85..265 Vac 47-63 Hz 8 W
-18..-72 Vdc 6 W
- > Double (Twin) Rack-mount versions (for cardnest CN4): 5 W

FREE TELINDUS MAINTENANCE APPLICATION (TMA)



SALES CODES

- > 171296 Aster 5 TT LCD VAC (integrated wide-range pwr Vac, LCD, V24 interface)
- > 171297 Aster 5 TT LCD 24/48VDC (integrated pwr 24/48Vdc, LCD, V24 interface)
- > 171301 Aster 5 TWIN-CV (Twin version for CN4, V24 interface)

Models with RS-530 interface (instead of V.24) or models with DES encryption are available on request

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