



ECM FAST 28800

Dial-up and Leased Line Modems

Product Concept

Nokia's ECM FAST 28800 dial-up modem family provides solutions for both dial-up and leased line applications. It offers high throughput, full-duplex and error-free communications for asynchronous users as well as synchronous rates for mainframe applications.

It provides full-duplex data transmission rates from low (300 bit/s) to high speeds (33 600 bit/s) thus offering all major data rates for dial-up modems. The modem also supports send and receive fax operation.

In point-to-point leased line applications both 2-wire and 4-wire leased line connections are feasible. The ECM FAST 28800's automatic dial back-up features ensure continuous data transmission on a dial-up line in case the leased line connection fails. When the line quality is sufficient, the modem automatically returns back to the leased line.

Applications

The ECM FAST 28800 is a viable solution for both public and private modem pools. In public modem pools it is especially effective, since it enables the operator to use only one modem type to cover all subscriber needs. In private modem pools the ECM FAST 28800 offers a fast and reliable way of accessing host computers and LANs. The ECM FAST 28800 can be used as a synchronous link up to 33 600 bit/s data rate for mainframe and Multiplexer applications.

Technical Highlights

- ITU-T V.34 modulation (33 600 bit/s)
- DTE rate up to 230 400 bit/s
- Security features
- Automatic dial back-up
- Remote configuration
- FAX facility

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Management

Remote configuration can be used for modem-to-modem management, operated either with the front panel keys or AT commands in the DTE interface.

Security

The dial-in security function allows a security call-back connection both in asynchronous and synchronous applications.

Technical Data

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Product	ECM FAST 28800	Stand-alone	DS61620.xx
		Rack-mounted	DS61610.xx
ITU-T Recommendations	V.34 - 33 600...2400 bit/s V.32bis/V.32 - 14 400...4800 bit/s V.22bis/V.22 - 2400 bit/s, 1200 bit/s V.21/V.23 - 300, 75/1200, 1200/75 bit/s (asynchronous only) de facto standard V.32terbo (19 200 and 16 800 bit/s) Simulated carrier in half-duplex synchronous operation according to V.13 (similar to V.33)		
Error Control	ITU-T V.42, MNP2-4		
Data Compression	ITU-T V.42bis, MNP5		
Send and Receive	Group 3: V.27ter/V.29/V.17 (2400...14 400 bit/s)		
Fax Operation	Service Class 2.0 and Service Class 2 (August 1990) Error Correction Mode (ECM)		
Terminal Interface	Operational	ITU-T V.24	
	Electrical	ITU-T V.28	
	Mechanical	ISO 2110	
	DTE rates	33 600...1200 bit/s synchronous 230 400...1200 bit/s asynchronous	
Line Interfaces	Separate dial-up and 2-wire/4-wire leased line interfaces		
Dial Back-up	Automatic dial back-up and automatic return-to-leased line operation (password protection)		
Auto-dialling	Asynchronous	AT and V.25bis	
	Synchronous	V.25bis (HDLC)	
Direct Call Capability	108.1 (DTR)		
Security	Call-back with password protection Automatic security call-back for synchronous and asynchronous applications		
Remote Configuration	AT commands Front panel keys		
User Interface	Through Nokia menu-driven display		