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NETWORK SERVICES

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SFOM - HS2 FIBRE DRIVER



Key Features

- ▶ **Synchronous or Asynchronous**
- ▶ **Data rates 56 or 64 kbps selectable**
- ▶ **V.54 Diagnostics**
- ▶ **Range, 0.4 km**

The SFOM-HS2, High Speed, Fibre Optic Modem is used in local data distribution connecting full duplex synchronous or asynchronous terminals or controllers to high-speed computers over fibre optic cable. The SFOM-HS2 operates at data rates of 56 or 64 kbps, and at distances up to 4 km over multimode fibre.

The SFOM-HS2 performs diagnostic loops in compliance with ITU V.54 standard. Two V.54 loops are available: local analog loop (V.54, loop 3) and remote digital loop (V.54, loop 2). These are activated by an external switch or toggling the DTE interface signals, Circuit

141 (pin 18) and Circuit 140 (pin 21).

Note: In X.21 and RS-530 interfaces, the loops activated by the external

Transmit timing can be provided by three alternative sources:

- Internal oscillator
- Loopback clock derived from the receive signal
- External clock derived from the terminal.

Note: SFOM-HS2 with X.21 Interface has no external clock.

The Carrier can be strapped for either continuous operation or for switched operation. When in switched operation, the carrier is controlled by the RTS signal,

enabling transfer of a control signal end-to-end.

The SFOM-HS2 Fibre Driver incorporates all the advantages of a fibre optic modem:

- Lower attenuation than with copper wire;
- EMI/RFI immunity for cost effective savings on expensive and heavy shielding and on complex error checking routines.
- High data security: risk of eavesdropping is minimised as fibres radiate negligible power; cost of data encryption is reduced;
- Safety and electrical isolation: no spark hazard and no ground-loop noise.