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Product Name :

Data Modem

Product Code :

SLE/CME/08



Science Lab
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Description :

Data Modem (Product Code: SLE/CME/08) is a radio data modem used to send computer data over a connected radio transceiver, giving field offices a data link where no internet or telephone line exists. Radio operators connect it to the transceiver through a 9600 baud RS232 interface, and it moves data with a selective repeat ARQ protocol and in-built compression at up to 6000 bps. It is manufactured by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, India, which also offers electronic lab instruments in India.

Specifications

Parameter	Detail
Data mode	Selective repeat ARQ protocol
Modulation	QPSK
Link establishment	Proprietary link establishment, 80 baud CHIRP
Data compression	In-built
Data transfer rate	Up to 6000 bps (compressed); up to 1475 bps (uncompressed)
Transceiver interface	9600 baud RS232; TR.29-based AT port
Primary power	13.5 V DC nominal (250 mA max); 9–16 V DC operating range
Operating temperature	0 °C to 55 °C
Size	210 mm W × 240 mm D × 65 mm H (including rear connectors)
Weight	1.8 kg
Includes	Antenna/connector, power supply, battery/charger and programming lead/software
Product code	SLE/CME/08
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab), Ambala, India

What Is the Data Modem Used For?

The Data Modem turns a voice radio into a data link. It sits between your data equipment and the transceiver, converting digital data into a signal the radio can carry and back again at the far station, so remote offices can exchange reports and records without internet or telephone lines.

Radio channels are noisy, so the selective repeat ARQ protocol asks for only the damaged blocks to be sent again rather than the whole transfer. In-built compression lifts throughput to as much as 6000 bps, compared with 1475 bps uncompressed, and the 9–16 V DC input range suits the 12 V battery systems common at radio sites. Because link set-up uses a proprietary 80 baud CHIRP method, plan compatible modems at every station in the link.

What to Specify When Ordering

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