

Base Band modem & Modem Eliminator...

LCM16P is a complete and reliable **base band** modem to be used in point to point and multipoint communications on 2 and 4 wires leased lines, in full duplex and half duplex with fixed and controlled carrier. This modem is **suitable** for any telematic environment, for **building, campus and local** loop needs.

LCM16P is **compatible** with any base band modem, it can be used on leased lines which are lent by your public manager, owner of the lines themselves.

It is easy to **program** and it is in conformity with **ITU-T V54** recommendation for **diagnostic** management and tele-management, in point to point and multipoint mode.

This product comes from **ASIC digicom** technology used for DCE1 (completely digital modem for CDN network) and it is carried out also into version at **64 Kbit for special connections** (LCM16P64) at high speed in local point to point environment without cascade connections.

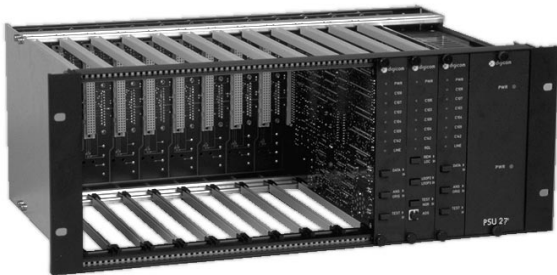
Technical Features

- Base band modem with phase modulation 2 levels ITU-T compatible
- Full duplex and half duplex with 4 wires line and half duplex with 2 wires line
- Working on point to point and multipoint networks
- Management of fixed and controlled carrier
- Automatic line equalizer
- Automatic speed detection for cascade connections.
- V24/V28 interface on DB25 connector
- Speeds: 225, 300, 450, 600, 900, 1200, 1800, 2400, 3600, 4800, 7200, 9600, 14400, 19200 bps
- Speeds: 24000, 32000, 38400, 48000 and 64000 bps on special version only
- Synchronous and asynchronous working with formats up to 11 bit
- Time Out circuit for carrier stop in multipoint due to fixed RTS for more than 32 Kbit
- C105/C106 delay: 0, 16, 32, 64, 128, 256, 512 bit time
- Line impedance: 150 or 600 ohm balanced
- Transmission level: from -6 to + 6 dBm
- Receiver from + 6 dBm to threshold level
- C109 threshold: -30 or -40 dBm with hysteresis > 2 dB
- C109 delay: off-on equal to 12 bit-time; on-off equal to 17 bit-time



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are made in Italy products, projected and manufactured by digicom S.p.A. leading company on the market for twenty years with Quality Certification according to **ISO9001/EN29000** and **BABT**.
The products are homologated, **CE** marked and they are in conformity with ITU-T recommendations warranting the **highest Quality level**.

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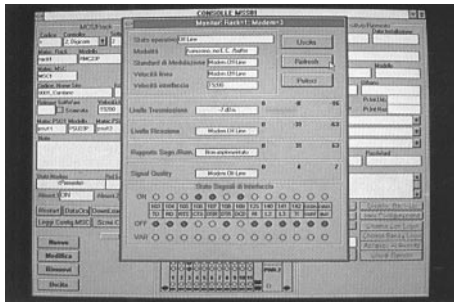
- Maximum distance for connection with twisted copper 6/10° cable:
 - 33 km up to 1200 bps
 - 30 km to 2400 bps
 - 24 km to 4800 bps
 - 14 km to 9600 bps
 - 10 km to 19200 bps
 - 3 km to 32000 bps
 - 3 km to 38400 bps
 - 2 km to 48000 bps
 - 2 km to 64000 bps
- Monitor from management system MSS01 through probe MSA01
- Power supply: 220 Vca - 50 Hz
- Consumption: 6 VA
- Dimensions: 192 x 46 x 146 mm.
- Weight: 1,8 kg.

If LCM16P is suitable for any local serial connectivity, **modem eliminator** is right for immediate connections and plug & play between computers located in the same room or near to each other.

The **three versions proposed** here below manage different interfaces and they have consequently different electrical and speed characteristics.



- LCM3a for V24/V28
- LCM3b for V35
- LCM3c for X21
- Interfaces for direct connection to DTE on any of the two ports
- Speed up to 76800 bps for LCM3a
- Speed up to 1,024 Mbit for LCM3b and LCM3c
- Asynchronous and synchronous working with clock generation
- Transparent codes, formats and protocols
- Interface signals regeneration
- Internal and external clock management
- Full duplex or half duplex
- RTS/CTS delay on LCM3a: 1, 4, 17, 70 msec
- RTS/CTS delay on LCM3b: 16, 24, 48 bit time
- RTS/CTS delay on LCM3c: 16, 24, 48 bit time
- V24/V28 interface on DB25 female connector
- V35 interface on 34 pin female connector
- X21 interface on DB15 female connector
- Power Supply: 220 Vca - 50 Hz
- Consumption: 10 VA
- Peso: 1,2 Kg



PRODUCT	CODE	DESCRIPTION
LCM16P	8D1678	Base band modem up to 19200 bps - V24/V28
LCM16PR	8D1726	Base band modem up to 19200 bps - V24/V28 - rack mount version
LCM16P64	8D1837	Base band modem up to 64000 bps - V24/V28 - V35 point/point - synchronous
RMC27	8D7069	Rack for 12 LCM16PR and 1 power supply
RMC28	8D7070	Rack for 10 LCM16PR and 2 power supplies
PSU27	8D6058	Power supply for RMC27 and RMC28 racks
LCM3a	8D1203	V24/V28 modem eliminator
LCM3b	8D1632	V35 modem eliminator
LCM3c	8D1633	X21 modem eliminator
CM5	8D5401	V35 interface adapter with no cable, to be used with LCM16P64