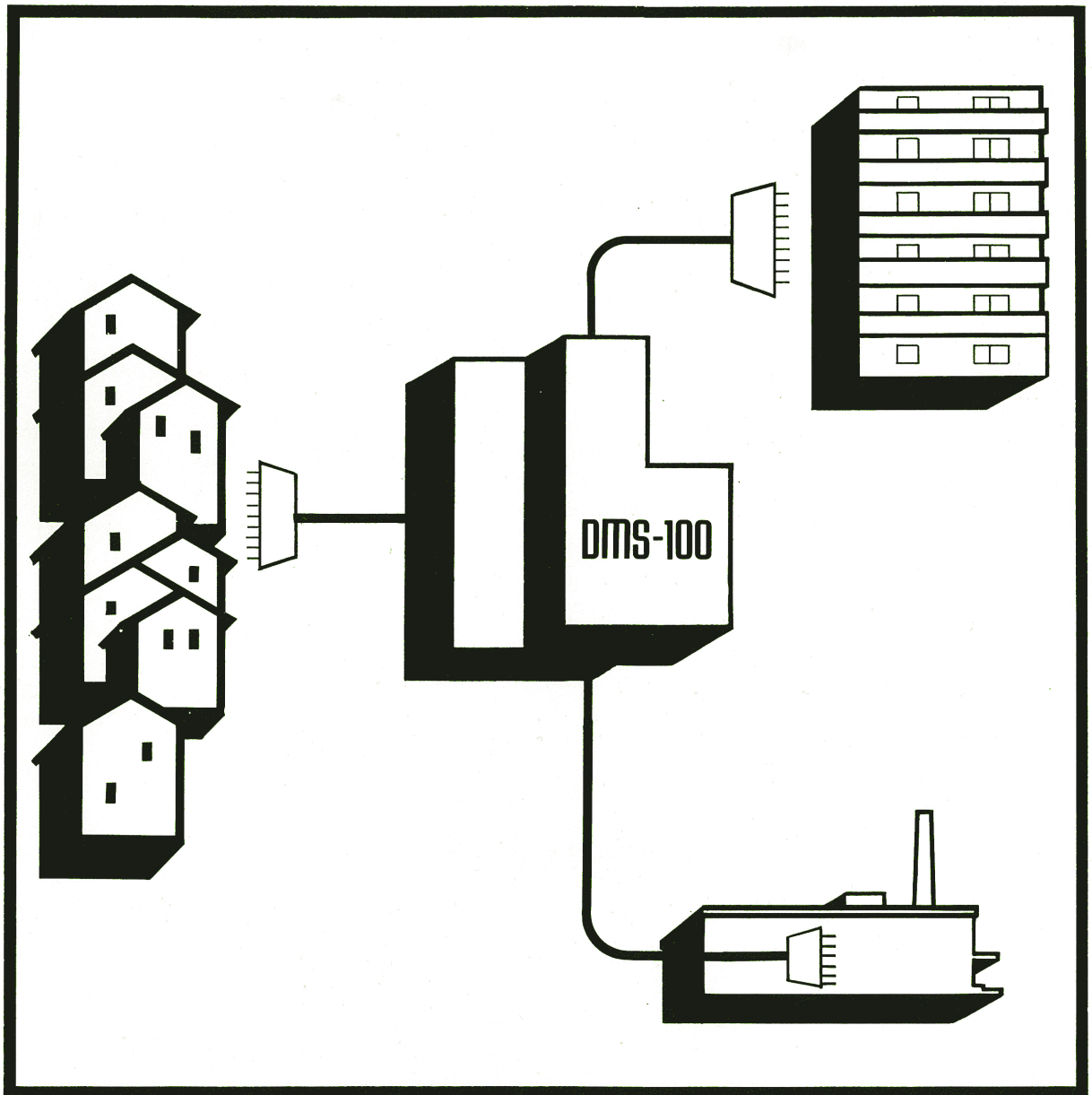


# DMS-100 FAMILY

# RLM

REMOTE LINE MODULES



**EXTEND CENTRAL OFFICE  
FEATURES AND SERVICES**

# DMS-100 FAMILY REMOTE LINE MODULES.

## Features and Benefits

Remote Line Modules in conjunction with a DMS-100 local or local portion of a DMS-100/200 local/toll switching system can be used to economically expand your serving radius.

Functionally equivalent to Line Modules, RLM's connect to the DMS-100 system via digital transmission facilities and can be located throughout your network where they are most needed:

- An RLM placed with a cluster of distant subscribers provides improved service and at the same time offers substantial savings in loop plant.
- In high density urban areas RLM's can be used to provide service to apartments or business complexes. This relieves heavy cable congestion while freeing up valuable central office floor space.
- RLM's can also be used in central office locations to relieve or replace older switching systems or as a means to offer up to date services to subscribers presently served by these systems.

RLM's extend the features of the DMS-100 host office to the remote site in addition to providing functions of:

- Traffic concentration of subscriber lines
- Conversion of analog signals to digital bit streams

Maintenance and administration is provided by the host office.

A summary of the more important benefits for short and long term planning objectives are:

- More efficient use of cable pairs.
- Deferred capital expenditures for feeder plant by remoting of lines to areas of high subscriber growth.
- The same product family to meet a broad range of traffic conditions — including Business Services.
- Premium income with economical extension of vertical services to existing SXS offices.
- Lower material costs through reduced usage of copper wire.
- Use of RLM's provides central office space savings.

### TECHNICAL FACT SUMMARY

- Size range — 100 to over 1000 lines.
- Interfaces to host office using from 2 to 5 DS-1 lines. Can be located up to 50 miles (80km) from host office (typical limit).
- Number of RLM's limited only by capacity of host office.
- Functionally similar to Line Module.
- Operates from -48V DC, power can be shared.
- Optional intra-remote switching.
- Optional emergency stand-alone package.
- Optional N + 1 sparing (Automatic transfer to spare line card) for unattended locations.
- RLM packaged on two standard DMS-100 single bay frames. Single bay configuration also available for smaller applications.

Orders are being accepted now for production and delivery in late 1980. For more details contact your nearest Northern Telecom representative.

Information subject to change since Northern Telecom reserves the right, without notice, to make changes in equipment design or components as progress in engineering or manufacturing methods may warrant

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