

## NORSTAR MODULAR 8X24 DR1 (NON-DS)KSU (1988)

### Norstar 8x 24 (Copper) Systems

The Norstar Modular 8x24 phone system is an easy-to-use yet feature-rich digital phone system. Fully expandable, it will grow as your business grows. Trunk and Station Modules can be added in the future to add to the capacity of the system. This expandable system is designed to meet the high growth potential of small and medium sized businesses. The basic 8x24 KSU expands easily by simple self contained add-on trunk and station modules. Any combination of six modules can be added to the KSU to a combined maximum of 128 total ports. An expansion card is required to add modules to the 8x24 KSU. Expansion cards come in either 2 module expansion or 6 module expansion. This expansion card plugs directly into the KSU. The trunk and station modules then connect to the expansion card with a single plug in cable. Station Module 0x16 provides for the addition of 16 station ports. The Trunk module 12x0 provides for a maximum of 12 trunk ports. The trunk module by itself does not provide trunk access. Trunk cards 4x0 go into the trunk module (maximum 3 trunk cards) per trunk module. It has built in connections for music on hold and loudspeaker paging.



The administration or the programming can be done from any extension on the system with M7310 phone or a larger phone.

- ✓ This system is designed on a module- and cartridge-based concept that offers easy installation, maintenance, expansion and customization.
- ✓ The base Modular 8X24 supports up to 8 lines and 24 stations, but can expand with Trunk and Station Modules for additional lines and terminals.
- ✓ The Modular 8X24 can support up to 6 Trunk Modules, each with a maximum of 12 CO lines, or 6 Station Modules each with 16 stations.
- ✓ When fully expanded, the Modular 8X24 system supports a combination of 128 ports on a combination of lines and stations, up to a maximum of 80 CO lines or 120 stations or combinations of the two.
- ✓ The system can be configured as analog CO lines, station ports or connections for other devices such as personal computers, data devices, and analog terminal adapter.  
There are two built-in cartridge slots in the base Modular 8X24 unit. The feature cartridge slot (the smaller of the two) houses the system software. The expansion cartridge slot (for a two- or six-port copper cartridge) is used to connect copper Trunk and Station Modules.
- ✓ Central Office lines enter the Norstar, and station ports exit the Norstar through two male 50-pin amphenol connectors. The amphenols is also used for connection of external devices such as Music on Hold, source, paging and auxiliary ringers.
- ✓ The Modular 8X24 is also equipped with two emergency transfer ports used to connect 500/2500 (single line phone) sets in the event of a power failure.
- ✓ The feature cartridge contains the system software for the Modular 8X24 operation, including the call processing, administration, and maintenance features and functions.

#### Features of Initial Release:

##### Expandability to 128 Ports

Accidental Disconnect (User can retrieve a call within one second if they accidentally put the handset back into the cradle).

- ✓ Autodial Keys
  - Number of Digits 16
- ✓ Automatic Line Selection
- ✓ Automatic Set Relocation
- ✓ Auxiliary ringing
- ✓ Background Music
- ✓ Busy Lamp Indication
- ✓ Button Inquiry
- ✓ Call Display when busy
- ✓ Call Duration timer
- ✓ Call Forward
  - All calls
  - Override Call Identification (Internal Calls)
- ✓ Call Pickup
  - Pickup Groups (4 groups)
  - Trunk Answer from Any Station
- CONFERENCE
- ✓ Delayed Ring Transfer to prime
  - Dial "X" Set
  - Direct Digit Dial
- ✓ Dialing Modes Standard
- ✓ Dial Mode for Lines - pulse/tone
- ✓ Dial Pad Feedback
- ✓ Direct Station Select Buttons
- ✓ Discriminating Ringing at Set
- ✓ Distinctive Ringing Cadence
- ✓ Do Not Disturb
- ✓ Flexible Call Restrictions TABLES
- ✓ Music on hold
- ✓ Line pool
- ✓ Restriction with override password
- ✓ Page
- ✓ Personal speed dial
- ✓ System speed dial
- ✓ Privacy
- ✓ Time and day display
- ✓ Transfer
- ✓ Voice call and voice call deny

#### Voicemail Capabilities:

- ✓ Not Supported

#### ACD application:

- ✓ Not Supported

#### Norstar Remote Utilities (Remote programming options):

- ✓ Not Supported

#### Desktop application:

- ✓ Not Supported

#### Hardware Compatibilities:

##### Modules:

- ✓ 12x0 copper trunk module
- ✓ 0x16 copper station module
- ✓ Copper 2 port expansion Cartridges
- ✓ Copper 6 port expansion Cartridges
- ✓ LS/DS Analog Trunk (NO Disconnect Supervision)

##### Auxiliary Equipments:

- ✓ Door phone and Door opener controller (DOC)
- ✓ SMDR1 or higher
- ✓ ATA, ATA 2
- ✓ VMI
- ✓ Busy Lamp Field (BLF) Module
- ✓ Norstar VOIP Gateway unit
- ✓ DS30 station port adapter

##### Telephone sets:

- ✓ M 7208
- ✓ M7310
- ✓ M7410
- ✓ T7208
- ✓ T7316 (the first 6 button will not function as a line button only as a feature button) not recommended
- ✓ T7316E (the first 6 button will not function as a line button only as a feature button) not recommended