

# Module EXTender™ for Norstar

Extend the reach of your Norstar system to different floors or different buildings

The Module EXTender is a reliable and economical alternative to linking Norstar Station Modules in scenarios usually requiring the costly purchase of second Norstar system.



- Connects station modules up to 1.9 miles from KSU
- No additional devices required
- Connects single station or a 10-unit star configuration
- Simplifies troubleshooting issues
- Works over copper and short-fiber connections
- Controls wiring costs
- Supports older 8 X 24 modular Nortstar equipment

## Product Overview

Alternative extension methods attempt to stretch the distance to each individual digital station set. This distance, the "TCM station loop", runs out of gas between 1000 and 2600 feet (304-792 meters). Building to building TCM extension requires costly specialized devices for loop protection. This means the old way of extending service to more than a few sets quickly became cost prohibitive, and left users with a few if any of the optional Norstar features. Module EXTender eliminates these limitations.

Module EXTender is a pair of small surface or wall mount units that receive the standard Nortel DS-30 signals over copper or short fiber, and retransmit them with enough strength to drive multi-mode long fiber over three kilometers. Now a remote Station Module can extend all your Norstar's features, applications and peripherals almost 1.9 miles from the KSU. Whether on the seventh or seventieth floor, every workgroup will have access to the same voicemail, ACD, or other functions as those on the main floor.

## Key Benefits

### Increased Productivity

Users up to 1.9 miles from the KTS get fully featured digital sets and all corporate KTS featured and applications.

### Network Efficiency

Unified system approach provides a more efficient use of network resources. Simplifies troubleshooting and maintenance by providing a common network access point

### Cost Effectiveness

No costly specialized devices for loop protection required. Cost savings from reduced wiring requirements.

### Flexibility Configurations

Single remote location or up to 10 remote locations in a star configuration.

## Key Features

- Extends reach of Norstar Station Modules over 1.9 miles
- Allows expansion of older 8 x 24 modular Norstars
- Allows sharing of system features and peripherals
- Increases reliability and helps control wiring costs
- Nortel BCM and Norstar®

## Technical Specifications - Module EXTender™ for Norstar

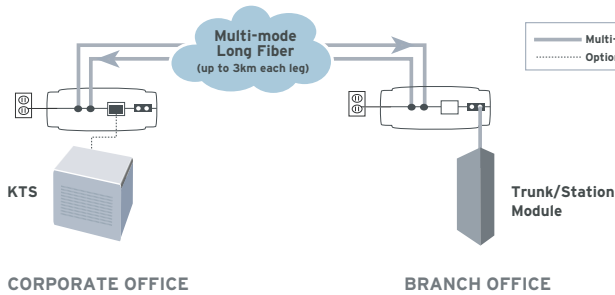
### General Specifications

- Product is supplied with one (1) 2.1 meter short fiber cable for connecting the local unit to the KSU.
- Customer supplies multi-mode long fiber (SUIECOR #2K81-31141-24 or equivalent) to connect local and remote units.
- Local and remote units may be separated up to 3 km (almost 1.9 miles).
- Depending on configuration, up to 10 remote Norstar Trunk or Station Modules may be connected with Module EXTender.

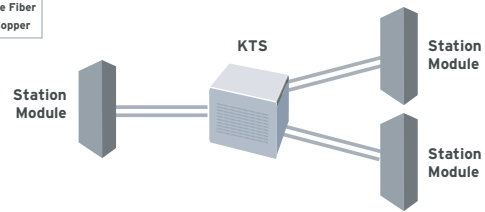
### Applications

- Office or institutional campus
- Mall type settings
- Distributed workgroups on multiple floors
- Large manufacturing or warehouse facility

TYPICAL - Single remote location



DISTRIBUTED STAR - Uses one Module EXTender™ pair for each branch. Up to 100 branches, each up to 3km.



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Product specifications subject to change without notice.

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