Module EXTender™ for Norstar®
Extend the reach of your Nortel Norstar® system to different floors or buildings

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

Connects station modules up to 1.9 miles (3 kilometers) from the KSU.

No additional devices required.

Connects single stations or a 10-unit star configuration.

Simplifies troubleshooting issues. .

Works over copper and short-fiber connections.

Controls wiring costs.

Supports older

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 1,000 and 2,600 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 becomes cost prohibitive, and leaves users with few, if any, of the optional Norstar® features. The Module EXTender™ eliminates these limitations.

The 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 retransmits them with enough strength to drive multi-mode long fiber over three kilometers. Now a remote Station or Trunk Module can extend all your Norstar® features, applications, and peripherals almost 1.9 miles (3 kms) from the Key Telephone System (KTS). 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.

Product Features

Extends the reach of Norstar® Station or Trunk Modules up to 1.9 miles (3 kms).

Allows expansion of older 8 x 24 modular

Norstar® units.

Allows sharing of system features and peripherals.

Increases reliability and helps control wiring costs.

.Key Benefits

Increased Productivity
Users up to 1.9 miles (3 kms) from the KTS get fully featured digital sets and all corporate KTS features 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.

Flexible Configurations
Single remote locations, or up to 10 remote locations in a star configuration.

Technical Specifications – Module EXTender™ for Norstar®

General Specifications

Product is supplied with one 2.1 meter short fiber cable (Nortel standard (E89328-C) with non-latching duplex connectors for connecting the local unit to the Norstar® KSU.

Customer supplies multi-mode long fiber (Corning Cable Systems, formerly SIECOR, #002K81-31130-24 or equivalent) to connect local and remote units.

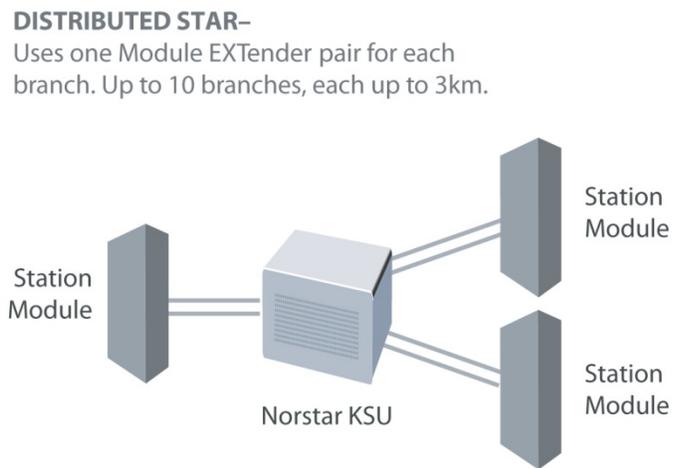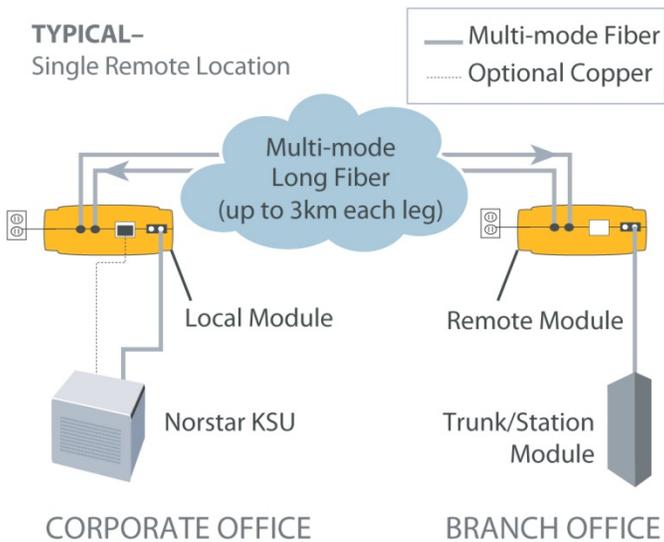Local and remote units may be separated by up to 1.9 miles (3 kms).

Depending on configuration, up to 10 remote Norstar® Trunk or Station Modules may be connected each with their own Module EXTenders.

Each Module EXTender pair supports up to 16 digital handsets (Digital Station Module), 8 analog handsets (Analog Station Module) or 12 Trunks (Trunk Module).

Form factor: small footprint, desk- or wall mountable. Size: 4.5" x 8" x 1.5"

Applications

Office or institutional campus.

Mail type settings.

Distributed workgroups on multiple floors.

Large manufacturing or warehouse facility.

TYPICAL–
Single Remote Location

— Multi-mode Fiber
···· Optional Copper

Multi-mode Long Fiber (up to 3km each leg)

Local Module
Remote Module
Norstar KSU
Trunk/Station Module
CORPORATE OFFICE
BRANCH OFFICE

DISTRIBUTED STAR–
Uses one Module EXTender pair for each branch. Up to 10 branches, each up to 3km.

Station Module
Station Module
Station Module
Norstar KSU

Citel. The VoIP Migration Company™