

# Vipersat Network Pilot Demonstration System



## INTRODUCTION

The Comtech EF Data Vipersat Network Pilot Demonstration System is a fully self-contained platform consisting of hardware for a hub and three remotes in a star/mesh configuration. This "low-fly" L-Band system is packaged in a single 16RU rugged, shock mount case, lending easy transportation from a partner office to a customer facility.

Alternatively, this system can operate over a satellite as a co-located hub/remote by reconfiguring the modem L-band interfaces at the rear mounted IF splitter/combiner panel, and making the appropriate connections to the satellite equipment.

This system includes a Vipersat Management System (VMS), which provides the capabilities of shared-to-dedicated bandwidth-on-demand demonstrations using our dynamic SCPC (dSCPC) technology, with the ability to perform Single Hop On Demand (SHOD) mesh connections between remotes.

Also included with this system is the ability to demonstrate the scheduling of circuits using our Vipersat Circuit Scheduler (VCS). Applications such as VoIP, Video Teleconference (VTC), File Transfer (FTP), Content Distribution & Contribution, can be easily connected to the system via the supplied 10/100 Base-T Ethernet switches at the rear of the unit.

This system comes fully assembled, integrated, and tested from the factory. The only items required by the partner to provide are a PC monitor, keyboard, and scroll (wheel) mouse for the VMS, as well as devices

such as VoIP and/or video conference phones used to demonstrate and test applications. The flyaway also contains rack mounted, front facing multiple AC power outlets. In order to ensure proper connection to local AC mains, the partner must specify which type of AC power plug is used at the time of order.

The result is a partner who has the tools to effectively design, sell, support, and maintains a Vipersat network. This translates into an end user who is confident in the partner capabilities and service, and satisfied with the Vipersat network solution.

## KEY FEATURES

- Fully self-contained platform for demonstrations utilizing Vipersat Network Products VMS and VCS
- Bandwidth-on-Demand using dSCPC
- Scheduled circuits using VCS
- Star topology connections from hub to all three remotes
- Mesh connectivity between remotes one and two
- Modems, server, and Ethernet switches included
- 110/220 VAC operation
- Rugged and transportable
- Easy and quick setup in demo lab, classroom or customer facility

The pilot system can be used by partners to:

- Demonstrate the capabilities of the system to end user clients. Demonstrations using live hardware and software are always more credible when users can see and touch equipment.
- Test and validate current and new applications that end users may wish to transport over the satellite network.
- Provide local hands-on training in country, in the native language.
- Deal with support queries real-time. Local engineers can quickly respond to end user issues by replicating problems reported in the field.
- Improve and increase the skill sets of their engineers and technicians responsible for supporting the platform locally.

## ORDERING INFORMATION

Listed below is the ordering information for the pilot demonstration system. Note this system can be specified from the factory with the following AC mains types:

North America	110 VAC, NEMA 5-15 type plug
Western Europe	220 VAC, Schuko type plug
United Kingdom	220 VAC, BS1363 type plug
Australia	220 VAC, AS3112 type plug

Other AC mains available upon request. Contact the factory for assistance with types not listed above.

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## SYSTEM

Hub	CDM-570L – Burst Controller CDM-564L – Switched Quad Demodulator Dell Power Edge Server (VMS & VCS)*(*CEFD reserves the right to substitute this server with compatible device)
Remote #1	CDM-570L – Data Modem CDD-562L Dual Demodulator (mesh) 10/100 Base-T Fast Ethernet Switch
Remote #2	CDM-570L – Data Modem CDD-562L Dual Demodulator (mesh) 10/100 Base-T Fast Ethernet Switch
Remote #3	CDM-570L – Data Modem 10/100 Base-T Fast Ethernet Switch

## POWER SUPPLY

Power Input	100 to 240 VAC, 50/60 Hz – Specify AC power configuration type at time of order
Power Consumption	525 watts nominal (flyaway only. Does not include partner supplied SVGA monitor or application devices, i.e. VoIP phones, etc)

## ENVIRONMENTAL AND PHYSICAL SPECIFICATIONS

Temperature:	
Operation	0 to +50°C (32 to 122°F) – Modem 0 to +40°C (32 to 104°F) – Ethernet Switches
(see Note)	+10°C to +35°C (50 to 95°F) – Dell Power Edge 850 Server
Dimensions:	
Shipping	38H x 27W x 36D inches (965H x 686W x 915D mm) Front and rear covers installed, casters removed.
Operating	43H X 27W X 26D Inches (1092H x 686W x 660D mm) Front and rear covers installed, casters installed.
Weight	275 lbs (124 kg)

*Note: Flyaway operating temperature limit is based on worst case system component. Operating the flyaway outside the temperature limits of the Dell Power Edge 850 server voids warranty.*

