



Echo Cancellation for Satellite Networks

Ditech Platform

Ditech's HEC solution for satellite networks is available on the following platforms:

Quad 2 E1 or
Quad 2 T1
in Carrier Shelf



Quad 2 E1 or Quad 2 T1
in Enterprise Shelf



In satellite applications, hybrid echo is present due to the digital-to-analog conversion at the 4-wire to 2-wire hybrid in the PSTN section of the network. Satellite links add approximately 250 ms uplink/downlink delay, making the echo very noticeable. Switching, signal processing, and wireline propagation delay all contribute further to end-to-end signal delay.

The Solution

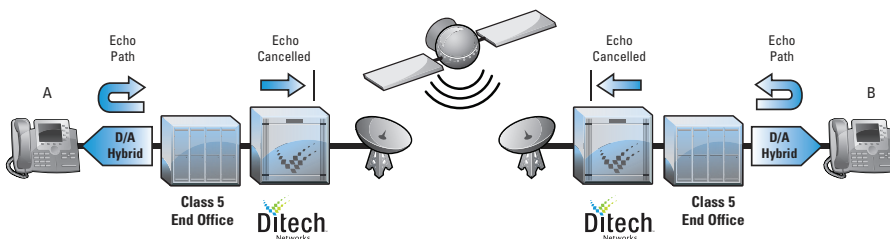
Ditech offers both high- and low-density platforms that include the following features:

- Industry's longest dynamic echo cancellation – up to 192 ms tail – ensuring consistently clear, echo-free calls, even in the face of network migration of TDM to VoIP
- Fast, stable convergence of less than 50 ms, with 30 dB or better ERL+ERLE
- Industry-leading performance cancels echo with ERL up to 0 dB; >35 dB ERLE (with 6 dB ERL) at -10 dBm0 input
- G.164, G.165, and G.168-2002 compliance
- Lowest per-channel power consumption in the industry – reduces cooling and power costs
- High-density Carrier shelf saves valuable floor space
- Easy-to-configure 1-to-4 port Enterprise shelf with AC or DC power
- Remote access and provisioning with Ditech's easy-to-use element management systems

Ditech Networks' Hybrid Echo Cancellation (HEC) solutions completely remove the annoying hybrid echo frequently encountered on calls placed over satellite networks. Ditech's solutions also provide a selection of voice quality features, such as automatic level control, background noise reduction, and acoustic echo control.

For HEC with an expanded suite of sophisticated voice enhancement features, Ditech recommends its VQA™ solutions.

Contact your local sales representative or Ditech's headquarters at the phone number and address below for more information.



Ditech's HEC Solution for Satellite Networks

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