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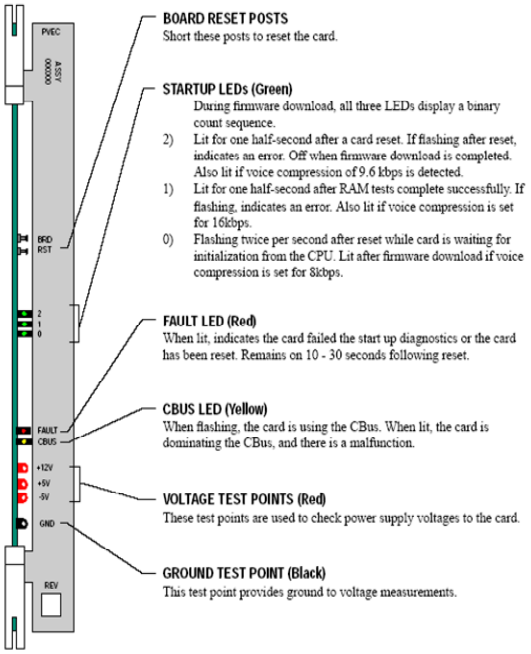
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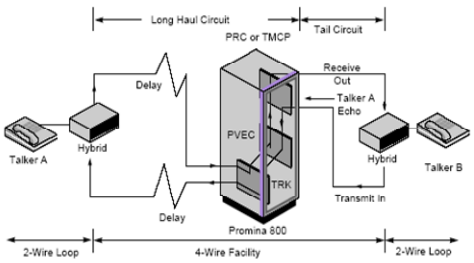
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Find the *Ribbon / Network Equipment Technologies Promina PVEC-32* at our website: *Click HERE*

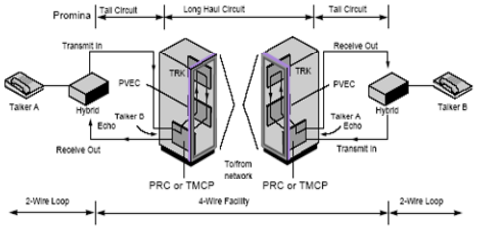
Prime Voice Echo Cancel (PVEC)



Echo Generation and Cancellation



Split Configuration



The PVEC-32 module provides background noise control for the Promina digital voice ports. PVEC eliminates the need for an external echo-cancelling device. Individual channels on a PVEC are available to any TMCP or PRC voice port. Unlike voice compression, echo cancellation can be single-ended: one site can be using PVEC echo cancellation while the other site uses an external canceller or no cancellation.

The PVEC module is designed to comply with ITU Recommendations G.165 and G.168. PVEC supports both A-Law and Mu-Law companding types. Echo in communication circuits is caused by impedance mismatches in the 4-wire to 2-wire terminating sets. These terminating sets, also referred to as hybrids, split the circuit into separate transmit and receive paths for the carrier facilities. The hybrid terminating set cancels the power reflections at the transmit/receive junction. Echoes are cancelled on the tail circuit side of the canceller to prevent the voice at the long-haul end of the circuit from hearing an echo.

To provide two-way echo control, echo cancellers should be installed at both ends of the circuit. This arrangement is known as a “split-type” configuration, whereby echo cancellations for each end of a circuit are split between two cancellers.

Install Card PVEC

```
< ins car,c24

*** SLOT N1C24 CONTAINS CARD TYPE PVEC.

DO YOU WANT TO INSTALL CARD N1C24?  [YES]
YES OR NO =

*** INSTALLABLE CARD TYPES ***
[ 0]  TRK          [21]  HSD-2        [42]  E3-TRK
[ 1]  LDCELP12     [22]  TMCP         [43]  VCFAX-24
[ 2]  LDCELP24     [23]  T3-TRK       [44]  VCFAX-12
[ 3]  CX           [24]  QXP          [45]  PX-3
[ 4]  URD          [25]  TK64         [46]  TRK-3
[ 5]  QSD          [26]  I422-TRK     [47]  ECHOX
[ 6]  INTU-560     [27]  QASD         [48]  APX
[ 7]  TRK-2        [28]  HDVC24       [49]  SX-2
[ 8]  HSD          [29]  HDVC12       [50]  PLM
[ 9]  DS-1         [30]  QAVP         [51]  PPM
[10]  USD          [31]  BX           [52]  LDCELP6
[11]  MEM          [32]  SX           [53]  HLC
[12]  QSD-2        [33]  HPC          [54]* PVEC
[13]  TK56         [34]  DS0B         [55]  PVE24
[14]  PRC          [35]  PX           [56]  HINTU
[15]  DS0A         [36]  PX-2         [57]  SCLX
[16]  VC31         [37]  PVAC         [58]  TWC
[17]  VC62         [38]  PVA          [59]  IP-TRK
[18]  DMD          [39]  LS-TRK
[19]  INTU-558     [40]  SATRK
[20]  X50          [41]  PX PLUS

NOTE: '*' MARKS DEFAULT SELECTION.
ENTER CARD TYPE FOR CARD N1C24?  [PVEC]
CARD TYPE =

*** PVEC CARD N1C24 HAS BEEN INSTALLED.

*** PVEC CARD N1C24 CONFIGURATION PARAMETERS ***
[ 0]  COMPANDING METHOD = MU_LAW
[ 1]  PVEC CLASS OF SERVICE = 0 (DEFAULT 0)

ENTER PARAMETER INDEX (OR HIT RETURN TO CONTINUE)
PARAMETER INDEX =

ARE ALL PARAMETERS CORRECT?  [YES]
YES OR NO =

*** PVEC RECORD UPDATED


*** PVEC CARD N1C24 CONFIGURATION (CPU: NONE) ***
   DB STATUS: DISABLED *        SLOT TYPE: PVEC
   COMPANDING TYPE: MU_LAW      PVEC CLASS OF SERVICE: 0 (DEFAULT 0)
   STATE: OFFLINE
DO YOU WANT TO ACTIVATE CARD N1C24?  [YES]
YES OR NO =

*** PVEC CARD N1C24 HAS BEEN ACTIVATED.


*** COMMAND COMPLETE ***
```

[0] Companding Method

Options are ***Mu-Law*** **or** ***A-Law*****.** The parameter selection toggles between the two options. If compression mode is not being used, the ***Companding Method*** must be set consistently at both the origination end and destination end of the connection. Compressed calls using both companding types can terminate on the same destination node.

[1] PVEC Class of Service

This parameter enables you to select the PrimeVoice Echo Cancellation Class of Service (PVEC COS). The PVEC COS parameter accepts entry values from 0 to 7, with a default of *0*. Each PVEC COS option contains PVEC and PVCOMBO card-level settings. The PVEC COS parameters will determine the basic operational characteristics of the device.

Query Card PVEC

< query card,c24

ENTER DISPLAY MODE (DETAIL OR SUMMARY) [D]
DISPLAY MODE (D OR S) =

*** PVEC CARD N1C24 CONFIGURATION (CPU:C11) ***
DB STATUS: ACTIVE SLOT TYPE: PVEC (REV J)
SERIAL NUMBER: 01830335 NET PART NUMBER: 027922-100
COMPANDING TYPE: MU_LAW PVEC CLASS OF SERVICE: 0 (DEFAULT 0)
STATIC FIRMWARE REV LEVEL: AE WRITABLE FIRMWARE REV LEVEL: AD
STATIC FW CHKSUM: 7B42 WRITABLE FW CHKSUM: 1234
FIRMWARE IN USE: STATIC

STATE: ACTIVE SUBSTATE: GET NEXT MSG
NBR ACTIVE CHANNELS: 0

*** HIT RETURN TO CONTINUE (ESCAPE TO QUIT) ***

*** COMMAND COMPLETE ***

Highlighted above are certain things to look for when querying this card, this query will aid you in troubleshooting.

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