



Conference Card for Loop-AM3440

Features:

- Two ports FXS and two ports 4W E&M plug-in module
- Two ports RS232 Asynchronous plug-in module (DCE)
- Up to 17 phones on a conference call
- G.723 for voice compression
- SNMP support through AM3440 controller
- RoHS Compliant
- Up to 3 concurrent conference calls



Description:

Loop Telecom's Conference plug-in card is designed for the Loop-AM3440 series. It provides two RS232 data ports, two FXS and two E&M interfaces, which can provide up to 17 party conferencing on one slot connecting through 17 AM3440s. The Conference bus provides an equivalent "Order wire" function for AM3440s connected using E1 interfaces. Both voice and data can be transported on one NX64Kbps time slot with the voice signal is compressed using G.723.

Each conference card in the AM3440 chassis provides max.3 independent conference bridge using same Nx64K channel. Multiple conference cards in the same AM3440 chassis would provide multiple independent conference bridges.

For utility and railroad users amongst others, using a Conference card in the AM3440 is equivalent to having an order wire function.

Ordering Information

To specify options, choose from the list below:

Note: RoHS compliant units are identified by the letter **G** appearing immediately at the end of the ordering code.

| Model | Description | Note |
|----------------------------|------------------------------------------|---------------------------------------------|
| Loop-AM3440-CONF- G | Conference interface card plug-in module | This card can be used in AM3440-A/B/C only. |

Accessories

User's Manual

| | |
|---------------------|-----------------------------------------------------------------------------------------------------------------|
| Loop-AM3440-CONF-UM | User's Manual (paper copy). Note: A CD version of the manual is already included as standard package. |
|---------------------|-----------------------------------------------------------------------------------------------------------------|

Conference Card Product Specifications

Conference Card

RS232 Interface (DCE)

| | |
|------------------------|---------------------------------------------|
| Data Port | Two ports per card |
| Asynchronous Data Rate | 300, 600, 1.2K, 2.4K, 4.8K, 9.6K, 19.2K bps |
| Synchronous | Not supported |
| Connector | DB-9 |
| Data Length | 5, 6, 7, 8 |
| Parity | None, Odd, Even |
| Stop Bit | 1, 2 |

FXS Voice Interface

| | |
|------------------------------|---------------------------------------------------------------------------------------------------------------|
| Connector | Two RJ11 |
| Encoding | G.723 |
| AC Impedance | Balanced 600 ohms |
| Longitudinal Conversion Loss | > 46dB |
| Cross Talk Measure | Max -70dBm0 |
| Gain Adjustment | Transmit (D/A) gain 0, +6dB Receive (A/D) gain +6, 0, -6dB |
| Signal/ Distortion | > 25dB with 1004 Hz, 0dBm input |
| Idle Channel Noise | Max. -65 dBm0p |
| Loop Resistance | Max 1800 ohm |
| FXS Loop Feed | Normal -48 Vdc with 25mA current limit |
| FXS Ringing | 2 REN 20Hz 76 Vrms 2 sec on / 4 sec off for 1 min, or 1 sec on / 2 sec off for 30 sec (programmable) |
| Signalling | Loop Start, DTMF |

E&M Voice Interface

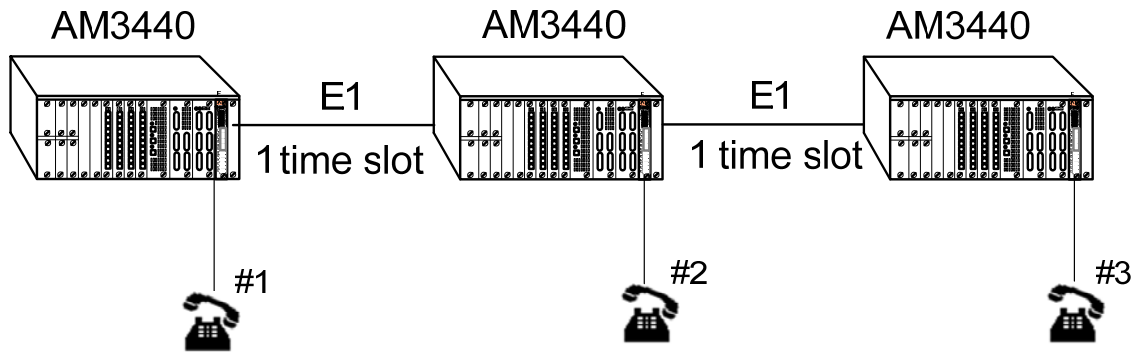
| | |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Connector | Two RJ45 |
| Encoding | G.723 |
| Impedance | Balanced 600 ohms |
| Longitudinal Conversion Loss | > 46dB |
| Gain Adjustment | Transmit (D/A) gain 0, +6dB Receive (A/D) gain +6, 0, -6dB |
| Signal/Distortion | > 25dB with 1004 Hz, 0dBm input |
| Idle Channel Noise | Max. -65 dBm0p |
| Carrier Connection | Side A = exchange side, Side B = carrier side (jumper selectable) |
| Line Power Type | Type P (jumper enabled) |
| Line Power Mode | Master, Standard (jumper selectable) |
| Wire Mode | 4 wire |
| Signaling Type | Type 1, Type 4, and Type 5 (jumper selectable) |
| E&M Phone Ringing | Relay turns on single ringing for 5 sec only (programmable) Relay turns on cadence of 2 sec on / 4 sec off for 1 min, or 1 sec on / 2 sec off for 30 sec (programmable) |

Application Illustrations

Limitations on each conference card:

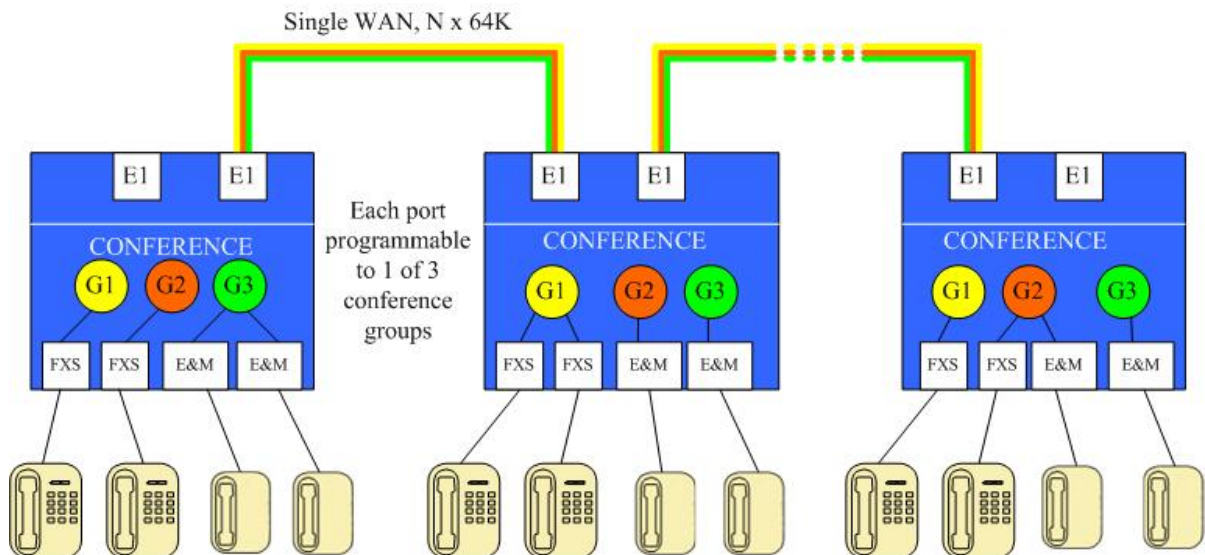
1. n x 64K Time Slot within the same E1
2. Users can set maximum 3 concurrent conference calls using 2FXS and 2E&M ports on a nx64k Time Slot.

FXS Voice Conference



Note: The three phones (#1 to #3) are grouped together through one timeslot of the E1 connection.

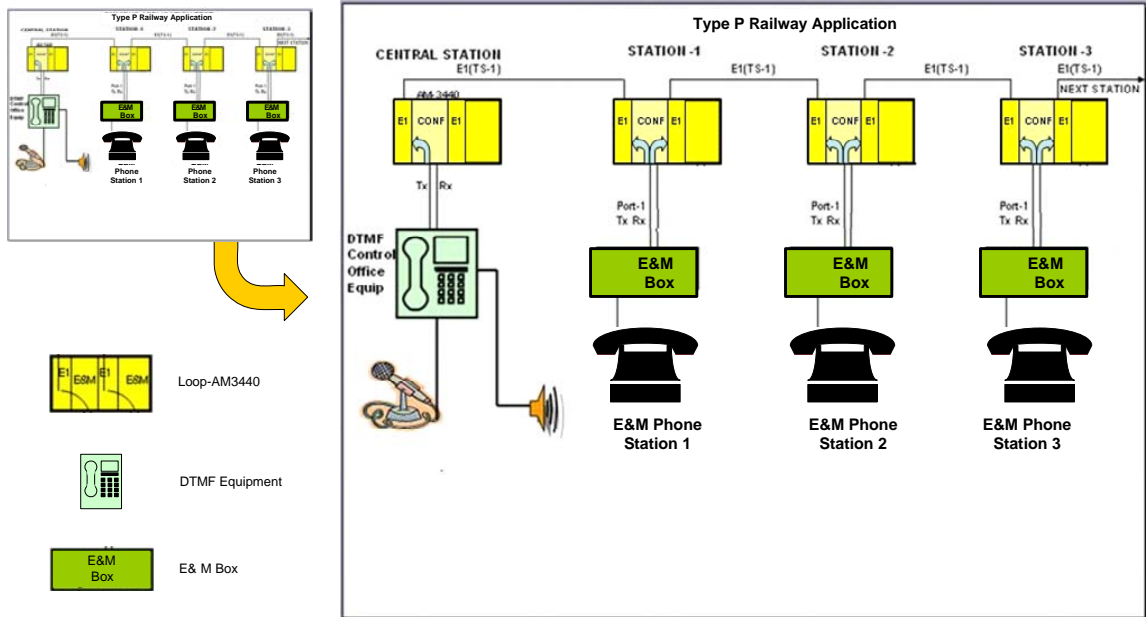
RS232, E&M and FXS Application



Note:

- G1= conference group 1
- G2= conference group 2
- G3= conference group 3

Conference Card Railway Application



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