Magneto Interface Card
for Loop-AM3440

Features

- 12 telephone connections for Magneto

- Connector: Twelve RJ11 or one Telco 64

- Supports MRD (manual ring down)

- Supports Magneto to FXS speak PLAR function

- Supports dual type L1/L2 and L1/GND magneto phone or MRD

- Per port software programmable for ringing and ring detection on L1/L2 or L1/GND

- A, B, C, D signaling bits per-port configurable

- 16 Vrms minimum detectable ring

- Intended for use with 110-220 Vac (SAB) or ±48 Vdc powered main units

Description

The twelve-channel magneto (12MAGA) plug-in card is designed for the single slot on Loop-AM3440 series. This module allows communications between magneto telephones. With the card set in PLAR mode, communications can take place between a magneto telephone and a regular telephone. All signaling is carried transparently by the digitizing process.

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Ordering Information

To specify options, choose from the list below.

Note 1: RoHS compliant units are identified by the letter **G** appearing at the end of the ordering code.
Note 2: Before purchasing, please check the AM3440 main brochure to see if the following models are supported by the controller to use with.

Model	Description	Notes
Loop-AM3440-12MAGA-**typ**-**G**	12-channel Magneto plug-in module with ring across L1&GND and L1&L2. Software programmable. Used with 12 RJ11 connectors or 1 Telco 64 connector.	Please use with 100-240Vac or ±48Vdc powered main units. For **typ** option, please refer to the table below for detail information
Accessories		
User's Manual		
Loop-AM3440-12MAGA-UM	User's Manual (paper copy). **Note:** A CD version of the manual is already included as standard package.	
Cable Management Bar		
Loop-ACC-CM-12RJ11- **G**	Cable Management Bar H192 x W7 x D12 mm	For AM3440 12 Magneto plug-in card only. Shipped with 3 screws.

■ Where **typ** is used to select the connector type:

typ=	Description	Note
RJ	12 x RJ11	
TELCO	1 x Telco 64	

Magneto Interface Card Product Specifications

Magneto (old crank-handle hot-line telephones), MRD (Manual Ring Down) Voice Card

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Connector	Twelve RJ11 x one Telco64
Power	110-220 Vac or ±48 Vdc
Alarm Conditioning	CGA busy after 2.5 seconds of LOS, LOF
Encoding	A-law or μ-law, user selectable per card configurable
Impedance	Balanced 600 or 900 ohms (for magneto telephone impedance)
Longitudinal Conversion Loss	> 46dB
Gain Adjustment	-21 to +7 dB / 0.1dB step transmit gain (D-A)
	-21 to +13 dB/0.1dB step receive gain (A-D)
Signal/ Distortion	> 25dB with 1004 Hz, 0dBm input
Frequency Response	± 0.5 dB from 300 to 3400 Hz, coincide with ITU-T G.712
Idle Channel Noise	Max. –65 dBm0p

Signaling

Minimum Detectable Ringing Voltage	16 Vrms
Crank Detectable Across	L1 & L2 Mode (Tip and Ring), L1 & GND Mode(Tip and GND) per port software programmable
Crank Detected time	Valid carnk: more than 250 ms
	Invalid crank: less than 160 ms
Ringing Generation	Voltage: 76 Vrms (sine wave)
	Frequency: 25Hz
Ring duration	Software configurable options:

1. PLAR OFF (Continuous Mode)
   Ring duration depends on cranking time

2. PLAR OFF (One-time) Mode
   Crank the phone for one time, and the ring duration of the far-end phone could be 0.7, 1.0, 1.5 or 2.0 sec

3. PLAR ON
   When FXS phone off-hooked, the ring duration of the far-end magneto phone could be 0.7, 1.0, 1.5 or 2.0 sec

Ringing Send Across	L1 & L2 Mode (Tip and Ring), L1 & GND Mode(Tip and GND)
Signaling	Turn Magneto Phone crank (Ringing across Tip and Ring or Tip and Ground)
Signaling Bit A,B,C,D	Per-port configurable

- Signaling is carried transparently by the digitizing process.
- Use Magneto card default setting for communications between magneto telephones
- Use Magneto card PLAR mode setting for communications between a magneto telephone and a regular telephone
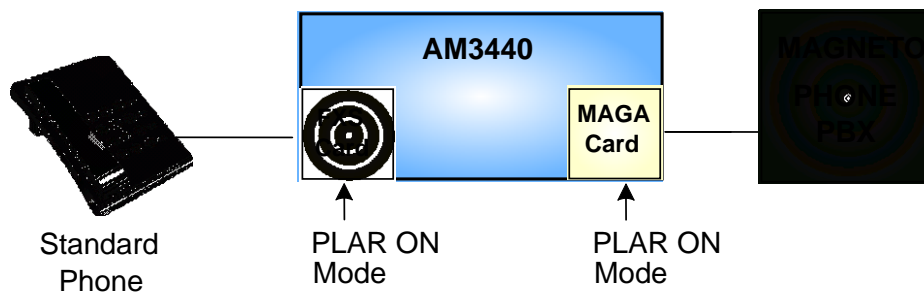
Application Illustrations
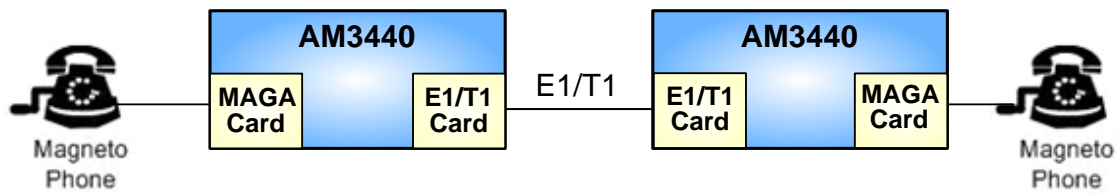
Standard Magneto Phone to Magneto Phone
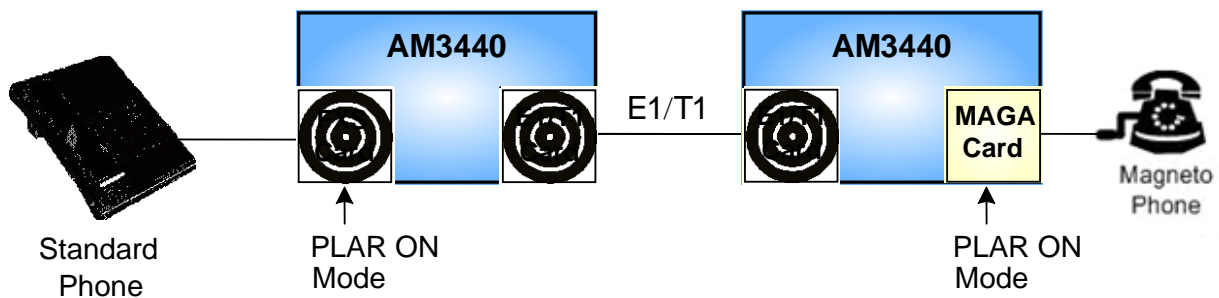
Telephone to Hand-Cranked Magneto Phone (PLAR ON)

As Telephone Converter (PLAR ON)

Worldwide	Europe	Americas	Australia & New Zealand
6F, No. 8, Hsin Ann Road Hsinchu Science Park Hsinchu, Taiwan 300092 +886-3-578-7696	128 Rue La Boetie, 75008 Paris 08, France +33-663-71-72-73 +33-667-67-10-45	8 Carrick Road Palm Beach Gardens Florida 33418, U.S.A. +1-561-627-7947	3 Imperial Ave, Mount Waverley, Victoria 3149, Australia +61-413-382-931
sales@looptelecom.com	eu_sales@looptelecom.com	ncsa_sales@looptelecom.com	aus_sales@looptelecom.com

Product Source International Datacomm
330 Franklin Turnpike
Mahwah, NJ 07430
201.488.6000 Tel
www.psitec.com / sales@psitec.com