Features

- **Multi-Digit Access & Release**
- **Direct Access**
- **Triple Key Access**
- **Auto-dial: 25 Numbers**
- **Paging, including Multi-User Paging**
  - 2-Tone
  - Plectron
  - 2805
  - DTMF
  - 1500
  - User-Defined 2-Tone in Multi-Mode
- **Pulse / DTMF Dial**
- **CTCSS Control**
- **Dial-Click Decode**
- **Enhanced VOX**
- **DTMF Regeneration**
- **Last Number Re-dial**
- **Half Duplex Capable**
- **Attendant Control**
- **Landline Enhanced VOX**
- **Hookflash**
- **Toll Restrictions**
- **Over-Beep Tone**
- **Automatic Station Identifier**
- **Autolevel**
- **Programmable Radio Interface (Including Detector of Speaker Audio, External Logic, Squelch, or Rx VOX Carrier Detect)**
- **Remote Modem Programmable**
- **PC Programmable (Windows® Format)**
- **Rack Mountable**
- **Modular Phone-Line Connection**

Applications

- Police, Fire, Ambulance
- Utilities, Taxis, Airlines
- Forestry, Parks and Recreation
- Industries, Municipalities, Construction
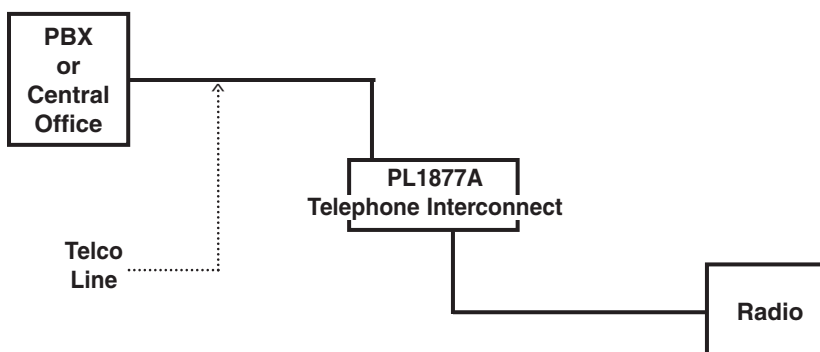- Security and Public Safety

The **MRTI 2000** (Mobile Radio Telephone Interconnect), Model PL1877A, is a highly advanced DSP-based tool to connect radio systems to public or private telephone networks. Used with repeaters or base stations, the unit initiates calls (with properly equipped portables and mobiles) and/or receives landline-initiated calls. The **PL1877A** will allow wireless users to keep in contact with landline phone users.

As the features listed show, the **PL1877A** offers a vast array of standard features that are optional with most other telephone interconnects. Features such as multi-digit and wildcard access, release, triple key access, direct access, number restrictions, timers and auto-dial, enhanced VOX, and built-in paging mean easy operation, control of landline communications, and user efficiency. The **PL1877A**'s programmable features allow it to be used in most user environments and radio systems.

Specifications

Size . . . . .7 W x 8.3 D x 1.5 H inches
Shipping weight . . . . .4 lbs. maximum
Color . . . . Black
Input voltage . . . . +10.5 to 16 V dc or optional 115 V ac or 220 V ac 50/60Hz
Input current . . . . Less than 750 mA
Temperature . . . . 0° to +60° C
Humidity . . . . <95% at relative humidity at +50° C
RFI protection . . . . Built-in
Audio distortion . . . . .1% maximum with reference to a 1,000 Hz tone
Frequency response (Rx to landline) . . . . ± 3 dB at 360 - 3,000 Hz
Frequency response (landline to Tx) . . . . ± 3 dB at 300 - 3,000 Hz
Hum and noise . . . . -45 dB from 1,000 Hz reference
Output level to radio Tx . . . . .15mV RMS to 0.5 V RMS into 600 Ohms
Output level to phone line . . . . -9 dBm maximum (timed average over 3 seconds)
Input level from phone line . . . . ± 5 dBm maximum; Autolevel threshold: -35 dBm, ±3 dB
Phone busy detect threshold . . . .-20 V, ± 2 V
Phone line ring detect . . . . Adjustable from 20 V RMS to 50 V RMS
Ringer equivalence . . . . .0.0B (AC) / 4.9 (DC)
Approvals . . . . FCC: ADG-USA-27439-MM-E
Landline audio delay . . . . 0 to 0.5 seconds adjustable (Enhanced VOX mode)
Logic inputs . . . . Input Impedance 90K ohms (inputs pulled up through
100K ohms to Power input voltage); Maximum low level input @ 5 V;
Maximum high level input @ 3.5 V; Maximum high level @ 100 V
VOX key sensitivity . . . .-45 dBm
Circuit loading to Tx audio . . . . .Bridging impedance (AC-coupled)
Radio connections . . . . .Generic - 12 conductor cable,
see Accessories and Options section
Telephone connections RJ11C/RJ14C

System Diagram

Accessories & Options

XAC4000B	Programming Bunde Flash Drive	**XAC0005A**	Rack Mount Kit
XAC0004A	Programming Cable	**51018-0006**	MTR2000 Interface Cable
40419-008	110 VAC Power Supply	**M2000-MAX-CBL**	MaxTrac/GM300 Interface Cable
	(Optional – needed if power is	**M2000-QUANT-CBL**	Quantar/Quantro Interface Cable
	not received from connected radio)	**M2000-DIU-CBL**	Astro DIU Interface Cable
40420-001	European Power Adapter	**M2000-MSF5000-CBL**	MSF5000 Interface Cable
40420-002	UK Power Adapter		

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