About ANI:
ANI (Automatic Number Identification) is also known as PTT ID because an ID is transmitted when the PTT button of the radio is pressed and/or released. This ID tells the dispatcher which field radio was keyed.

Types of ANI:
Midian is the only manufacturer of ANI systems to offer all of the following ANI encode and decode signaling formats:
- Motorola’s MDC-1200
- Kenwood’s FleetSync
- Harris’ G-Star (aka GE-Star)
- DTMF
- 5-Tone

ANI System Uses and Benefits:

Accurate Identification: Sometimes it can be difficult to recognize a radio caller due to background noise or a weak signal. ANI clearly identifies the caller for the dispatcher.

System Abuse: Many radio systems are plagued by radio users that key-up over other users, make obscene comments, etc. Radio systems use ANI to accurately identify who the abusers are so that appropriate action may be taken.

Emergency Identification: When a field radio has an emergency, time should not be wasted with the dispatcher trying to identify the caller. With Emergency ANI, users in distress can be identified accurately and in a timely manner.

Call Assignments: In taxi, limousine and towing fleets many calls are assigned by which radio user replies first. ANI display decoders, such as Midian’s ADD, CAD or DDU series, enable the dispatcher to see which field radio replied first.

Man-Down & Lone Worker: A lone worker in distress may not be able to initiate an Emergency ANI manually. The Man-Down feature uses an accelerometer to detect motion. When there is a lack of motion for a period of time, Midian’s Man-Down modules can send the Emergency ANI. The Lone Worker feature looks for activity such as pressing the PTT button or a Lone Worker reset button. When there is no activity of a period of time Midian’s Lone Worker modules can send the Emergency ANI.

Common Users of ANI Systems Include:

Public Safety: Police and fire systems use emergency ANI to accurately and quickly identify radio users in distress.

Transit: Bus and train systems use ANI and statuses (i.e. in service or out of service) to inform the dispatcher of route information or emergency conditions.

Fleets: Taxi, towing and limousine services may assign jobs to the first person to respond to a call. Using ANI allows the dispatcher to identify the first field radio to respond and fairly assign the call.

Industrial & Utilities: Industrial and utility radio users employ the emergency ANI, Man-Down or Lone Worker feature to alert the dispatcher of an accident. When a lone worker is at a site without anyone to assist in an emergency the ENI function can help save lives.

Why choose Midian:

Customer Support: Midian believes in creating lasting relationships with our customers and our support does not end once the order is placed. Our sales and technical support staff are dedicated to ensuring that you are completely satisfied with your experience.

Product Quality: Midian takes the utmost care to make certain that you receive only the highest quality products. To demonstrate our commitment to quality Midian offers a 3 year product warranty on parts and labor. Midian performs its engineering and production in-house, so that we can tightly control our quality.

Experience: Midian Electronics has been in business since 1975. It’s engineers, technicians and sales staff have over 100 years of combined experience in the two-way radio industry. This experience enables Midian’s staff to understand your applications and find the best product to fit the applications.

Ease of Installation: Midian offers the largest selection of plug-in modules. For radios that we don’t offer a plug-in module Midian has a very large database of application notes. We also have an applications engineer on staff to assist with installations.

Cost Effective: Midian strives to offer the most cost effective prices for it’s products. If it’s not the lowest-cost, Midian will meet or beat a competitor’s price on a comparable product.
ANI-F
Multi-Format ANI Encoder with Emergency ANI

Midian’s ANI-F can send an Automatic Number Indentification (ANI) and an Emergency ANI (ENI) in Motorola’s MDC-1200, Kenwood’s FleetSync, Harris’ G-Star (aka GE-Star), DTMF, 5-Tone or Custom Tones. Plug in versions of the ANI-F are available for Icom, Kenwood and Vertex radios. Programmable using Midian’s KL-4.

TS-120
Multi-Format ANI Encoder with Man-Down & Lone Worker

Midian’s TS-120 series is a multi-format ANI encoder and Emergency ANI encoder that supports Man-Down and Lone Worker operation. The Man-Down operation uses an accelerometer to detect motion. If no motion is detected for a programmed amount of time the unit will send the Emergency ANI. The Lone Worker operation expects user interaction with the radio (PTT or Lone Worker Reset) within programmed intervals. If no interaction is detected within this programmed interval the unit will send the Emergency ANI.

- Supports ANI in Motorola’s MDC-1200, Kenwood’s FleetSync, Harris’ G-Star (aka GE-Star), DTMF and 5-Tone
- Plug in versions available for Icom, Kenwood, Motorola and Vertex. Also available in a speaker microphone configuration.
- Requires Midian’s KL-4 Programmer

VAE-1
Voice Alarm Encoder with ANI, Man-Down & Lone Worker

Midian’s VAE-1 is a voice alarm encoder that supports Man-Down and Lone Worker operation. The VAE-1 can have a voice message stored in it and when the emergency is activated the VAE-1 will transmit an emergency ANI and the recorded voice message. The VAE-1 can provide voice location messages for Public Safety (firefighters and police) or for lone workers in areas where GPS location is not available. For example, firefighters can store a custom voice message into the VAE-1 as their location changes while fighting a fire in a building. If there is a fire in a ten story building and the firefighter is working on the second floor in room 215, the firefighter can record “Second floor room 215”. If the emergency input is activated (by a button press, Man-Down or Lone Worker) the VAE-1 will send the emergency ANI to identify who is in trouble and the voice message will follow to inform the last recorded location. This enables the rescuers to concentrate their search efforts in one area of the building rather than splitting their search efforts between ten stories. Locator tones can also be generated to the radio speaker to provide an audible alert to the searchers.

- Supports ANI in Motorola’s MDC-1200, Kenwood’s FleetSync, Harris’ G-Star (aka GE-Star), DTMF and 5-Tone
- Plug in versions available for Icom, Kenwood, Motorola and Vertex. Also available in a speaker microphone configuration.
- Requires Midian’s KL-4 Programmer
ADD Series
ANI & Emergency ANI Display Decoder

Midian’s ADD multi-format ANI display decoders work with Midian’s ANI encoders or an ANI equipped radio to enable the dispatcher to monitor fleet communications to identify system abusers and emergency conditions. The ADD can decode and display ANI and Emergency ANI in DTMF, 5-Tone (all formats), Harris’ G-Star, Motorola’s MDC-1200 or Kenwood’s FleetSync. The ADD-MF can decode and display ANI and ENI simultaneously in all of the above formats for interoperability. The large LED display makes it easy to view incoming ID’s.

- Scroll through the last 6 ID’s
- Emergency ANI alert
- Format digit for identifying the signaling format
- Infrared remote controller for scrolling the display and silencing alert tones
- Requires Midian’s KL-4 programmer and KL-4 Option A
- Serial output option for Moducom and Orbacom consoles

ADD-100: DTMF
ADD-200: 5-Tone
ADD-400: Harris’ G-Star (aka GE-Star)
ADD-500: Motorola’s MDC-1200
ADD-600: Kenwood’s FleetSync
ADD-MF: Multi-Format Decoder

DDU Series
Desktop Display Decoder & Local Remote Controller

Midian’s DDU will decode and display incoming ANI’s and Emergency ANI’s to provide the dispatcher with the radio user’s identity. This assists in correctly identifying users, stopping system abuse or to identifying users in distress.

- Decodes and displays ANI and Emergency ANI
- Alias database supports up to 135 user names
- 2-line LCD display shows ANI/ENI and Alias
- 10 number ANI memory recall with scroll buttons
- Repeater access control mode employing user ID validation

DDU-100: DTMF (encode & decode)
DDU-200: 5-Tone (encode & decode)
DDU-300: Midian’s Kryptic (encode & decode)
DDU-400: Harris’ G-Star (decode only)
DDU-500: Motorola’s MDC-1200 (decode only)
DDU-600: Kenwood’s FleetSync (decode only)
**ANI Display Decoders**

**CAD Series**

Computer Based ANI Display Decoder & Encoder

Midian’s CAD series display decoders enable the dispatcher to monitor fleet communications, to identify emergency conditions and system abusers. The CAD can decode and display ANI and Emergency ANI in DTMF, 5-Tone, Midian’s Kryptic, Harris’ G-Star, Motorola’s MDC-1200 or Kenwood’s FleetSync. The CAD-MF can decode and display ANI and ENI simultaneously in all of the above formats (except Kryptic). The CAD products (except the CAD-MF) can encode commands such as Selective Call, Radio Kill, Query, etc.

- Creates traffic log files that can be exported to Microsoft Excel or Access for reports
- View the entire day’s traffic
- Displays ID, Alias, Time, Date and Statuses
- Audible and visual indications for Emergency conditions
- CAD Option B: Serial to Ethernet adaptor with CADNet Jr Software (Decode Only)
- Serial output protocols available

**CAD-100:** DTMF  
**CAD-200:** 5-Tone  
**CAD-300:** Midian’s Kryptic  
**CAD-400:** Harris’ G-Star (aka GE-Star)  
**CAD-500:** Motorola’s MDC-1200  
**CAD-600:** Kenwood’s FleetSync  
**CAD-MF:** Multi-Format Decoder

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**TRC Series**

Desktop Display Decoder & Local Remote Controller

Midian Electronics’ Tone Remote Controllers enable the dispatcher to remotely control a base station radio via a dedicated phone line, microwave path or telemetry link to a tone remote adaptor such as Midian’s TTC-1 or TTC-2. The TRC products use EIA and industry standard tone remote tones – guard, monitor and function tones (F1-F16). Additionally the TRC series offers tone signaling features for controlling and monitoring fleet communications for identifying and stopping system abusers. When the field user keys the radio, a PTT ID or ANI is transmitted. This ID can be displayed on Midian’s TRC along with an alias and status (if applicable). An Emergency ANI can also be decoded and displayed to identify radio users in distress.

- Decodes and displays ANI and Emergency ANI
- Alias database supports up to 135 user names
- 2-line LCD display shows ANI/ENI and Alias
- 10 number ANI memory recall with scroll buttons

**TRC-100:** DTMF (encode & decode)  
**TRC-200:** 5-Tone (encode & decode)  
**TRC-400:** Harris’ G-Star (decode only)  
**TRC-500:** Motorola’s MDC-1200 (decode only)  
**TRC-600:** Kenwood’s FleetSync (decode only)