

Application Note

Model Number: C25 Series Decoders

Description: Using the Translator Option to feed MDC-1200 capable consoles. This allows for the continued use of the existing MDC-1200 capable console. Eliminating the need or delaying the need to purchase a new console and infrastructure.

The Translator option is an additional cost feature that converts a standard C25 Series decoder into a device that converts APCO P25 signaling and Fleetsync™ into true MDC-1200 audio data bursts.

This C25 Option is designed for the system that currently uses a console that is capable of decoding MDC-1200 ANI directly. If you are currently using your console to decode MDC-1200 ANI, you can use the same console to decode the APCO P25 CAI ANI as well as Fleetsync. If using Alias on your console, this option allows you to maintain the existing Alias functionality of your console.

Operation goes like this:

A unit (ID 1111) in the field with APCO P25 signaling keys up and his PTT ANI is transmitted. At the Translator, the APCO P25 ANI is decoded and converted to MDC-1200 (actual MDC-1200 data burst). This signal is recombined with the recovered analog audio signal and forwarded to the dispatch console.

FleetSync™ is unique in that field ID's consist of a fleet ID and a unit ID. As MDC-1200 only supports a four digit unit ID, the decoding Translator strips the Fleet ID from the received data string and only the unit ID is translated and forwarded.

P25 ANI ID's can be up to six HEX characters in length. The Translator will only successfully translate P25 ID's with a length of up to four characters

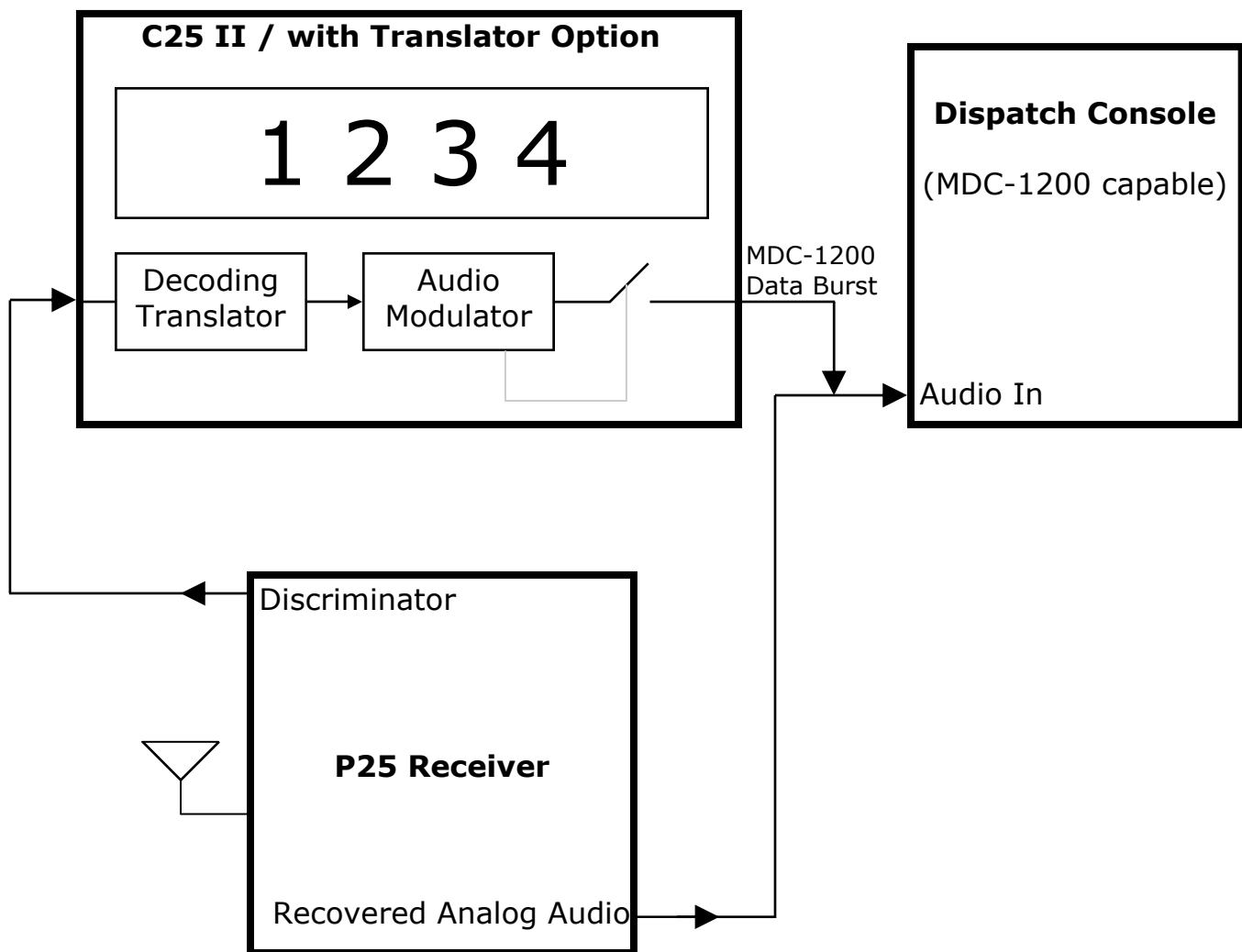


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The Translator input is attached to the receiver discriminator and the Translator output is attached to a point at the console where recovered analog audio from the P25 receiver enters.



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Once the Translator Feature is turned on, the C25 becomes a 'Translator' only and no longer has the features of the C25 as follows:

- It will translate incoming P25 and FleetSync™ ANI (including Emergency ANI) data into audio band MDC-1200 ANI data.
- It will ignore inbound MDC-1200 data and will only display P25 and FleetSync™ IDs.
- The Alias Feature (an Option for the normal C25) will not be used if it is installed.
- The serial data out (RS-232) becomes invalid.
- FleetSync™ Fleet ID is lost as only unit ID is supported in the MDC-1200 format.
- Only P25 ID's up to FFFF are translated. Position five and six character P25 ID's are ignored.
- The mute function is only available with COS qualified mute and the receipt of FleetSync™ data.