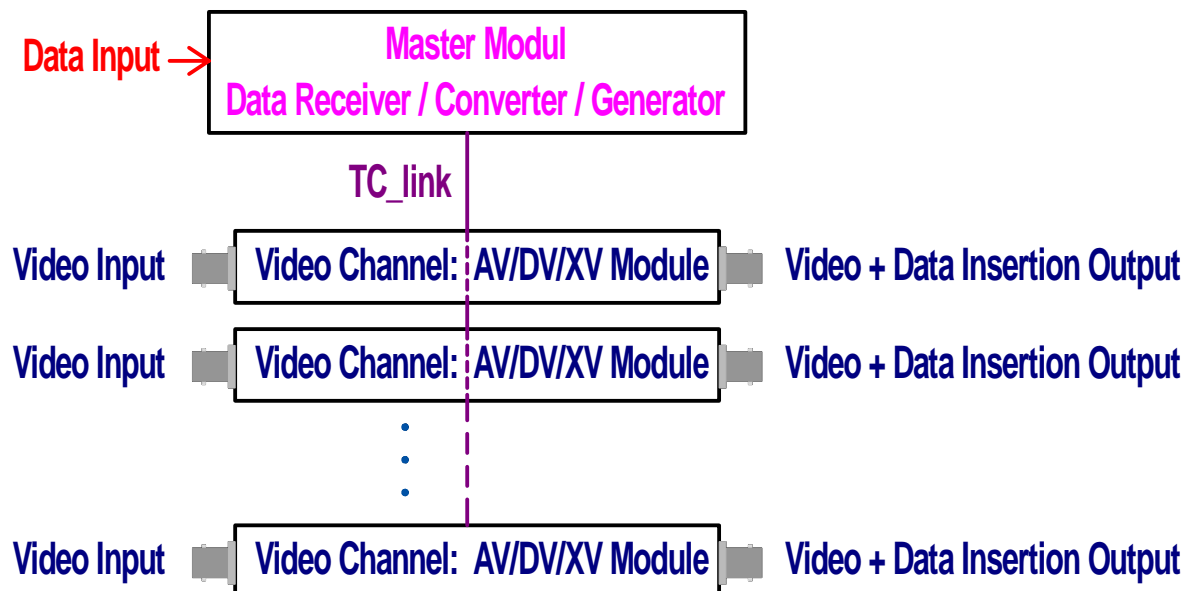


The following description introduces special “Master – Slave” systems arranged with modules of the *Alpermann+Velte* RUBIDIUM Series:

Multi-Channel Video Data Insertion



Master Modul:

- The “Master” module depends on data input and application. It could be any generator module (GB, GI, GL, GT, GPS 10 MHz, GW, ...) or any multi-purpose time code and video data module (AT, DT, XT) or any special video data module (AI, DI, XI).

TC link:

- Frame accurate data link between all modules.
- Modules located in the same chassis are connected to TC_link by internal socket. Different chassis are connected via RLC connector (DSUB9).

Video Channels:

- There is no limit for the number of video channels.
- Video signals can be asynchronous.
- Each video channel module can receive an individual set-up.
- Choose each video channel module according to the video format, in any combination:
 - RUB AV: CVBS analogue video: 625/50 (PAL) or 525/60 (NTSC).
 - RUB DV: Standard digital video channel: SD.
 - RUB XV: Digital video channel: SD or HD or 3G.

Application: LTC to VITC/ATC Time Code Converter and Inserter System

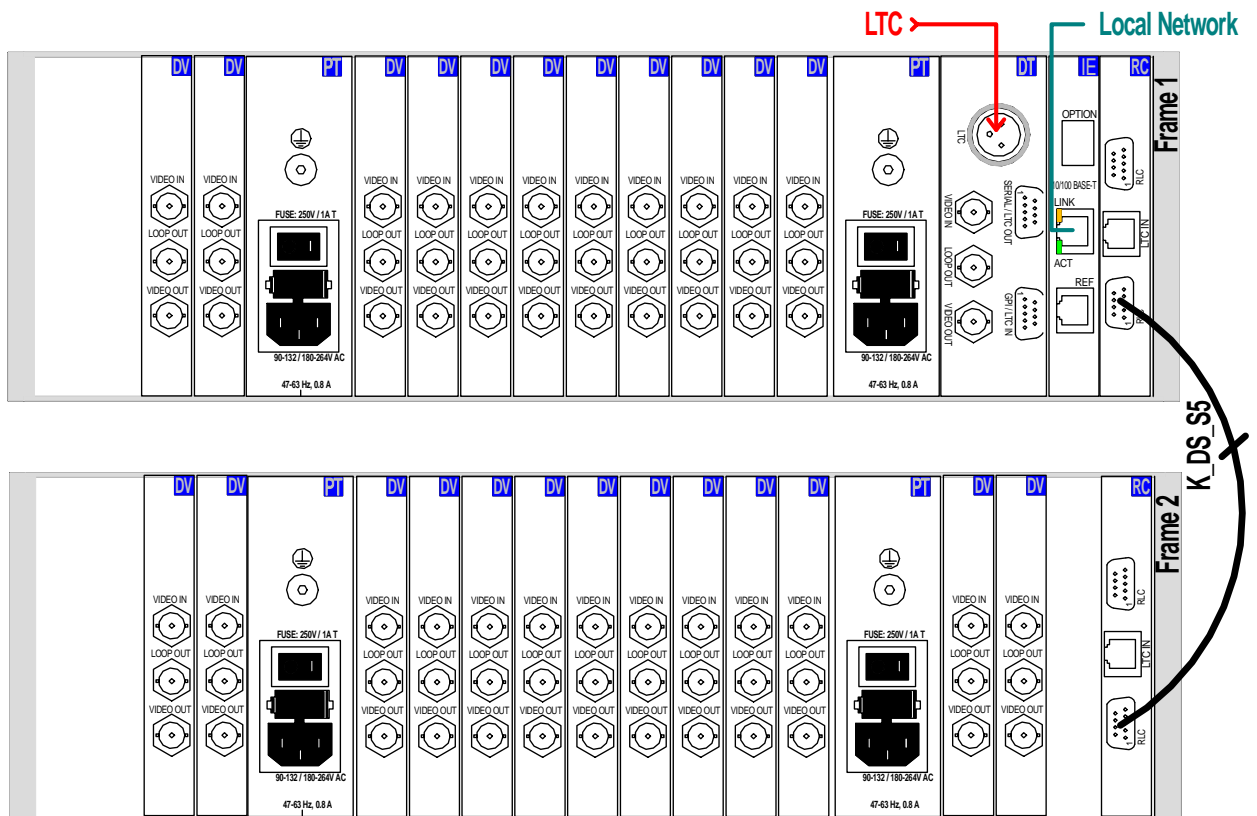
The master module reads LTC and transmits delay compensated LTC information to all video channel modules via TC_link interface. LTC information can be converted to any video time code format (VITC / D-VITC / ATC_LTC / ATC_VITC) depending on the type of module and on individual configuration.

Example: Two RUB H3 chassis.

Master module = DT.

IE module for configuration and status monitor via Ethernet.

24 DV modules + DT module = 25 video channels.



Application: IRIG-B Reader and Inserter System

The master module reads IRIG-B time code and transmits delay compensated IRIG-B information to all video channel modules via TC_link interface. Time & date – decoded from the IRIG-B information – can be visibly inserted in a video window.

Application: Time & Date Inserter System

The master module receives time & date from an external real-time reference (GPS or radio clock receiver, external time code ...). Time & date will be transmitted to all video channel modules via TC_link interface. Time & date can be visibly inserted in video windows.

Application: Up-Counting and Down-Counting Clocks with External Trigger Input

The master module has a precise built-in clock and receives START, STOP, RESET commands. The master module transmits the current time to all video channel modules via TC_link interface. Time can be visibly inserted in a video window.

Application: Event-Controlled Text Inserter System

The master module receives trigger signals. Each trigger can set or reset a programmable – customer defined – event. Event status will be transmitted to all video channel modules via TC_link interface. Text windows can be switched on and off depending on event status. Each video channel module can have its own text and its individual text position and size etc.

It is possible to combine applications!

For any questions and detailed information please don't hesitate to contact *Alpermann+Velte*.