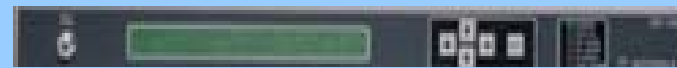
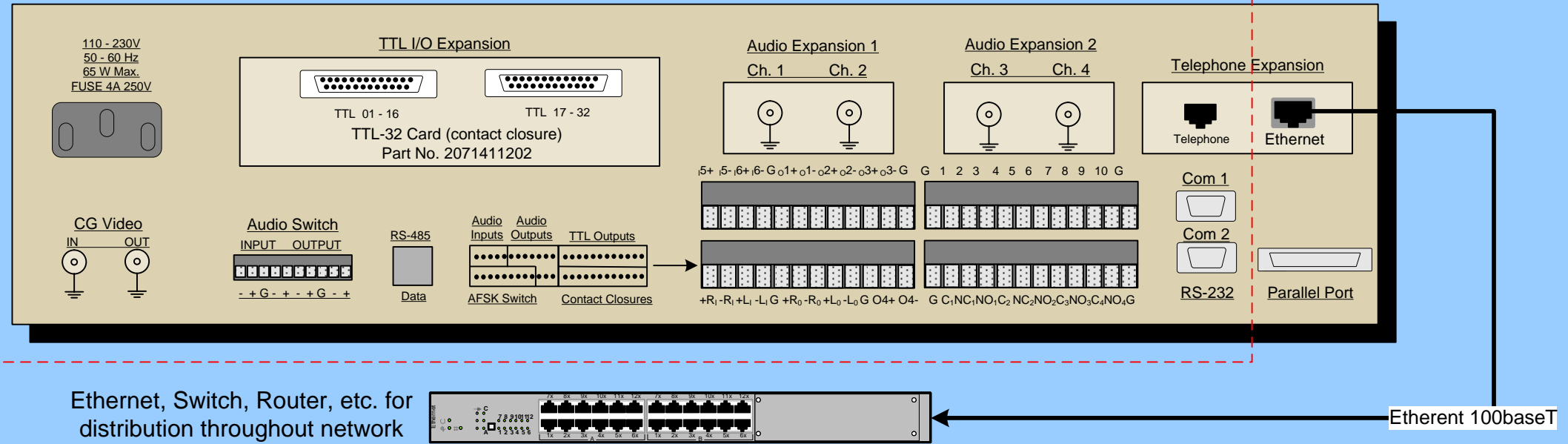


TRILITHIC EASyPLUS™ Encoder/Decoder

(Examples of cable network infrastructure supported)

- **Analog EAS Portion of EASyPLUS** contains:
- Internal Character Generator
- "Tune-to" audio switch
- I/O Expansion slot
- RS-485 for external CG chain
- Remote hub site AFSK TX
- TTL and Contact Closures
- Up to 4 radio inputs AM, FM, NOAA
- Local Telephone Override
- Baseband audio inputs/outputs



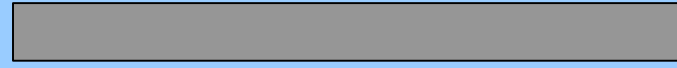
Motorola OM1000

- OM1000 processes SCTE 18 inbound messages on out-of-band PID 1FFC.
- UDP port user configurable.
- Protocol: SCTE 18 UDP Port (MPEG Packets)
- OM1000 translates E.A.S. PID over to network PID for use with CableCards, Settops, etc.
- CableCard has ability to pass-thru textual crawl to host but for video & audio force tune required (host without dual tuners).
- Unicast environment..



Motorola SEM

- SEM processes SCTE 18 inbound messages on inband PID 1FFB.
- UDP port user configurable.
- Protocol: SCTE 18 UDP Port (MPEG Packets)
- Clear-channel QAMS with direct pass-thru of E.A.S. to end-user host.
- EASyPLUS supports textual crawl message enabling for hosts with dual tuners that can also capture audio_source_ID.
- Unicast or Multicast environment..



Terayon CP 7600 Edge Decoder

- Protocol: SCTE 18 UDP Port (MPEG Packets)



RGB Networks SEP48 Edge Decoder

- Protocol: SCTE 18 UDP Port (MPEG Packets).
- Has ability to stay at-channel and crawl EAS message while acquiring EAS Audio PID.



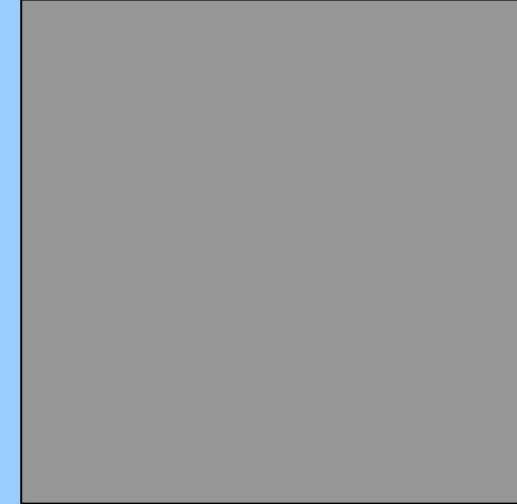
VCOM Cablevista Edge Decoder

- Protocol: SCTE 18 UDP Port (MPEG Packets)



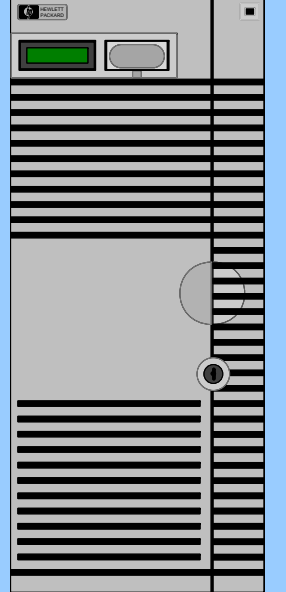
Scopus UID-2912 Edge Decoder

- Protocol: SCTE 18 UDP Port (MPEG Packets)



CMTS or M-CMTS

- M-CMTS or CMTS used for distributing SCTE 18 messaging downstream to various devices, hosts.
- Protocol: SCTE 18 DSG (Docsis Settop Gateway) broadcast tunnel.
- Unicast or Multicast environment.
- UDP Port user configurable.
- Network MTU configurable.



DNCS-Server

- Legacy protocol supported.
- Protocol: DVS-168 transfer protocol jointly developed with S-A.
- Explorer settops (and equivalents) stay at-channel with textual crawl audio display.
- Support for multiple DNCS servers.

TRILITHIC EASyPLUS Configuration Software

Typical In-Band SCTE 18 Message Setup

Setting up digital EAS SCTE 18 Messages.

1. Select the message type by clicking on the name.
2. Click on SETTINGS TAB
3. The desired default protocol for a SEM is **SCTE 18, UDP Port (MPEG Packets)**
4. The default **Port Number** typically is **5050**.
5. Default **PID Number** is **1FFB** for an In-band SCTE 18 message.

The screenshot displays the 'Digital Config' window with the 'Messages' tab selected. On the left, a list of digital EAS messages is shown, with 'MOTOROLA SEM' selected under the 'DNCS SERVER - SOUTH' category. An arrow labeled '1' points to this selection. Below the list are 'ADD', 'MODIFY', and 'DELETE' buttons. On the right, the 'Settings' tab is active, showing configuration options for the selected message. An arrow labeled '2' points to the 'Settings' tab. The 'Message Protocol' dropdown is set to 'SCTE 18, UDP Port (MPEG Packets)', with an arrow labeled '3' pointing to it. Below this, there are checkboxes for 'Enable the Crawl Text for this Message' (checked) and 'Enable the Spooler for this Message' (unchecked). The 'Port Number' dropdown is set to '5050', with an arrow labeled '4' pointing to it. The 'PID Number' dropdown is set to '1FFB', with an arrow labeled '5' pointing to it. Below these are sections for 'Out-of-Band Sources' and 'In-Band Sources', each with 'Details Source ID' and 'Details Minor Channel' dropdowns, all currently set to '0'.

TRILITHIC EASyPLUS Configuration Software Setting Scientific-Atlanta DNCS for DVS-168 Protocol

Setting up digital EAS for S-A DNCS Messages.

1. After adding a message at the left hand column for DNCS, select **MESSAGE PROTOCOL** for **Scientific-Atlanta** and enter **easftp** for both the **User Name** and the **Password**.

