Dial-Up/Leased-Line Modem (DLM) Specifications

Physical –
- o **Dimensions:** 3 inches x 1.6 inches x 2.7 inches (AUX)
  3 inches x 1.4 inches x 3.5 inches (DIN)
- o **Mounting:** Bulkhead, DIN Rail
- o **Connections:**
  - RS-232/RS-232-3-Wire Female 9 Pin Subminiature D connector
  - Power (1 Pair), Wire Range 28 – 14 AWG
  - TelCo, RJ11
- o **Indicators:**
  - DTR (Green) – Data Terminal Ready
  - DSR (Green) – Data Set Ready
  - CTS (Green) – Clear to Send
  - RTS (Green) – Request to Send
  - CD (Green) – Carrier Detect
  - TD (Yellow) – Transmitting Data
  - RD (Yellow) – Receiving Data
  - RI (Red) – Ring Indicator/Dialing

Electrical –
- o **Supply Voltage:** 11 to 26 VDC
- o **Current draw:** Nominal 200 mA max at 12 VDC
- o **CPU:** Industrial Hardened Microcontroller

Characteristics –
- o **DAA Isolation:** 3000 VAC
- o **Frequency Stability:** +/- 0.01%
- o **AGC Dynamic Range:** 43 db
- o **Command Buffer:** 60 Characters
- o **Receiver Sensitivity:** -43 dBm
- o **Transmit Level:** -11 dBm
- o **Serial Speeds:** 300 to 230,400 bps
- o **Client to Client Data Rates:** 300 to 33,000 bps
- o **Client to Server Data Rates:** Supports V.90 and V.92
- o **Data Format:** Serial, Binary
- o **Data Compatibility:** V.92, V.34 enhanced, V.34, V.32bis, V.22bis, V.22; Bell 212A and 103/113, V.21 & V.23
- o **Data Compression:** ITU-T V.44 (6:1 throughput), V.42bis (4:1 throughput), MNP 5 (2:1 Throughput)
- o **Error Correction:** V.42, (LAP-M or MNP-3-4)
- o **Flow Control:** XON/XOFF (Software), RTS/CTS (Hardware)

Intelligent Features –
- o **Autodial, redial**
- o **Dial Pauses**
- o **Auto Answer**
- o **Adaptive Line Probing**
- o **DTMF Detection**
- o **DTR Dialing**
- o **Phone Number Storage**
- o **Flash Memory for Firmware Updates**
- o **NVRAM storage for User Defined Parameters**

Approvals –
- o **Safety Certifications:**
    - UL60950
    - cUL60950
    - EN60950
    - IEC60950
    - ACA TS001 / AS 3260
    - CCC
- o **EMC Approvals:**
    - FCC Part 15
    - Canadian EMC
    - EN 55022
    - EN 55024
    - GB4943, GB9254

Environmental –
- o **Operating Temperature:** -30 to 80 degrees C
- o **Operating Humidity:** 5 to 95%.

Warranty –
- o **7 years, Transferable**