SkyZhone Model 1424 Circuit Description

802-01920-03 – Protection Child Card

This circuitry provides connection to/from the Skyzhone product through connection to bulkhead-mounted connectors. Also primary and secondary surge protection is provided on the CCA. The four SHDSL ports provide for both uplink data and line powering to the product. The PoE port supplies a 10/100 Ethernet connection and +48Vdc at up to 35 Watts. The Console connection allow for unit set up and diagnostics. This connection is not part of the permanent installation.

802-01911-02 – WAN Child Card

This circuit card contains the 4-port SHDSL interface and DSP logic. It also contains the Console IC, and Ethernet IC and interface circuits. The line power is recovered on this CCA with a connection to an open-frame 3x5 XP DC to DC converter with +48V and GND output. This 48V output is feed back to the WAN Child Card to be further converted to +5V, +3.3V and +1.5V for logical IC power for all the CCAs.

802-01910-01 – Main CCA

This circuit provides the mirco-processor, memory and PLD ICs to run the application program for SkyZhone. Also contained on this CCA are two PCI card connectors. One of these is used for the 802.11 a Radio module. The other is not populated in this product, but used for future products. Connection is also provided on this CCA to two Radio Amplifier child cards, one of which is used in the current product.

802-01926-02 – 4.9 GHz Amplifier CCA

This CCA provides for amplification of Tx and Rx RF signals in the 802.11 a frequency band (20 MHz bandwidth centered on either the 4.96 GHz or 4.98 GHz frequencies).