SkyZhone Model 1600 Circuit Description

The Model 1600 is an AC powered product accepting nominal 120VAC directly to the open frame 3X5 XP power supply located within the unit.

The difference between the 1600 and previously certified 1624 (FCC ID: PJZSZ1624) is as follows:
1) The same AC/DC power supply in the 1600 product is supplied with 120VAC instead of +/- 140Vdc. An internal Ferrite clamp has been added to the AC supply leads.
2) The SHDSL functionality and components have been removed from the WAN Child Card with the elimination of that interface to the product. The resulting circuit card assembly is the 800-02611-01.

802-01920-03 – Protection Child Card
This circuitry provides connection to/from the Skyzhone product through connection to bulkhead-mounted connectors. Also is provided on the CCA. For the 1x00 Models the SHDSL ports are unused. The PoE, 10/100 Ethernet connections is the uplink data for the product, which has both primary and secondary surge protection. This cca also supplies +48Vdc at up to 5 Watts to external devices. The Console connection allows for unit set up and diagnostics. This connection is not part of the permanent installation.

802-01911-02 – WAN Child Card
For the 1x00 SkyZhone models this circuit card has the 4-port SHDSL interface and DSP logic depopulated. This circuit card contains the Console IC, and Ethernet IC and interface circuits. This CCA receives 48Vdc from the open-frame 3x5 XP 120VAC power supply. The supply 48V output 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 used for the 802.11 b/g Radio module. Connection is provided on this CCA to two Radio Amplifier child cards, both of which are used in this 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).

802-01927-03 – 2.4GHz Amplifier CCA
This CCA provides for amplification of Tx and Rx RF signals in the 802.11 b/g frequency band (20 MHz bandwidth) operating on one of 11 channels (1-11).