



### FCC Part 15D Application Form & Self-Declaration

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|------------------------|--|
| Manufacturer:          | David Clark Company, Inc.  |
| Model Number:          | U9120-W4   |
| Serial Number:         | 8208-20  |
| Description:           | Digital Intercom Wireless Gateway. Relay for all audio interface between Wireless Belt Station users and the U9100 Master Station and connected ancillaries. |
| Power Source:          | 48 VDC (Ethernet POE)  |
| Hardware Revision:     | V43000G-32AY Rev 4<br>Assy # V43000G-32AY Rev 3  |
| Modulation Type:       | GFSK   |
| Operating Frequencies: | 1921.536 -1928.448 MHz   |
| Emission Designator:   | 1M45F7E (FCC), 1M23F7E (IC)  |
| Antenna Gain:          | 2.13 dBi – External antenna:<br>-5.84 dBi – Internal antenna: PCB Board  |

|                                  |   |          |          |          |          |
|----------------------------------|---|----------|----------|----------|----------|
| Number of channels:              | 5   |          |          |          |          |
| Carrier frequency (MHz)          | 1921.536  | 1923.264 | 1924.992 | 1926.720 | 1928.448 |
| Maximum Peak Power Level (dBm)   | 18.80   |          | 18.83    |          | 18.82    |
| Nominal Receive Bandwidth        | +/- 500 kHz   |          |          |          |          |
| Frame period (ms)                | 10  |          |          |          |          |
| Timeslot Plan                    | 24 timeslots per frame. First 12 timeslots used for FP transmissions. |          |          |          |          |
| Nominal Burst Length (us)        | 381.00 µs   |          |          |          |          |
| Operating Temperature Range (°C) | Min   | -20      | Max      | +50      |          |

|  |   |
|--|---|
| Does a system built with the EUT that implement the provisions of 47CFR 15.323(c)(5) enabling the use of the upper threshold for deferral?   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| According to 47CFR 15.323(c)(5), does your model <b>not</b> use bandwidth in further cooperation with other devices at any range?  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| Does a system built using the EUT that operate under the provisions of 47CFR 15.323(c)(6) incorporating provisions for waiting for a channel to go clear?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| According to 47CFR 15.323(c)(8), does EUT use the same antennas for transmission and reception as for monitoring?  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| Does a system built using the EUT that operate under the provisions of 47CFR 15.323(c)(10) to test for deferral only in conjunction with a companion device?   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Does a system built with the EUT that operate under the provisions of 47CFR 15.323(c)(11) enabling the access criteria check on the receive channel while in the presence of collocated interferers? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| According to 47CFR 15.323(c)(12), does EUT <b>not</b> work in a mode which denies fair access to spectrum for other devices?   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| Does your model have the monitoring made through the radio receiver used for communications?   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| Does your model transmit control and signaling channels?   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| According to 47CFR 15.319(b), do all transmissions use only digital modulation techniques?   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |

|  |  |   |                               |                        |
|--|--|---|-------------------------------|------------------------|
| The provisions within the EUT for self-check, by which compliance with 47 CFR 15.319(f) is obtained: | A- Connection break down, cease of transmit                            |   | <b>Test case</b>              | <b>Reaction of EUT</b> |
|  | B- Connection break down, EUT transmits signaling information          | 1 | Switch – off counterpart      | B                      |
|  | C- Connection break down, counter part transmits signaling information | 2 | Hook-on by counterpart        | --                     |
|  |  | 3 | Switch- off by EUT            | A                      |
|  |  | 4 | Hook -on on EUT side          | --                     |
|  |  | 5 | Remove power from EUT         | A                      |
|  |  | 6 | Remove power from counterpart | B                      |

DECLARED BY: David Clark Company

14 Jul-16  
Date

DAVID J. TRUESDELL  
Name (print)

Signature