Attachment No 2 a) do SWZ

Procedure No 26/Z-58/7227/PN/2021/D

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Supplier data:

Name: ......................................................................................................................................

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Headquarters: ......................................................................................................................................

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Data of the declarant:

First name and last name: .....................................................................................................................

**The manner of representing the Supplier:** power of attorney/ entry in the register or records\*)

# TECHNICAL FORM OF THE SUBJECT OF THE ORDER

***Attention. The Supplier is obliged to indicate in the table, in the column "Specification of the subject of the agreement", the offered subject of the agreement by its unambiguous definition (for example. manufacturer, name, type, catalog number) and accurately describe its characteristics, technical parameters and functional features!***

**Table no 1**

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| --- | --- | --- | --- |
| *Characteristics, technical parameters, functional features of the subject of the agreement t and the quantity ordered* | | *Specification of the subject of the order offered and the quantity offered* | |
| **Delivery to the customer’s premises of a brand new, unused communication system** | **Ordered quantity**  **1 set** | **…………………………………………………………………………..**  *(for example: manufacturer, name type, catalog number)* | **Quantity offered**  **……... set** |
| **The system has:**   1. **Factory new, unused radio module defined by software in built-in version, with accessories – 5 set** 2. **Technical parameters** 3. The minimum operating frequency range: 1.98-2.7GHz 4. Output power: 2x 100mW 5. Possibility to connect a radio amplifier: 2W, 5W 6. Maximum dimensions of the radio module: 50mm x 50mm x 20mm 7. The maximum weight of the radio module: 90g 8. Supply voltage: 8..18V 9. Power consumption up to 9.5W 10. Sensitivity of the telemetry receiver: -114dBm 11. Possible bitrate MESH MIMO 87 Mbps 12. Transmitted and received data latency possible <160 ms 13. Equipment: 14. Ethernet cable 15. Power cable 16. Wiring for connecting amplifiers 17. Possibility of transmitting in two polarities (MIMO) 18. Tuning step: 125 kHz 19. Working temperature: -20 ° C to + 60 ° C with cooling 20. Maximum ambient humidity 85% non-condensing 21. Internal microSD 128GB 22. Inputs / outputs 23. RF COFDM transceiver 1 SMP (male 50 Ω) 24. RF COFDM transceiver 2 SMP (male 50 Ω) 25. RF telemetry transceiver SMP (male 50 Ω) 26. Video SD/HD-SDI 1 MCX (female 75Ω) 27. Video SD/HD-SDI 2 MCX (female 75Ω) 28. USB control and download 3.0 Micro-B 29. Power input 30. Power output 31. 2 x Microphone / line input 32. Audio speaker output 33. IO data control input / output (7 pins) 34. Gigabit Ethernet 10/100 Mb/s 35. RS232 interface 36. **Program parameters** 37. COFDM transmission coding 38. Carrier modulation: BPSK, QPSK, 16QAM, 64QAM 39. Connection topology: mesh (MESH) 40. Possibility of transmission compression: H.264 41. Support for SDRAPP-MESH software 42. Ability to make settings via the web GUI 43. Possible levels of access: user, superuser and administrator accounts 44. Support for SD card with a capacity of 128 GB 45. Possibility of transmission encryption: AES 256 46. **Mesh application boundle for SOL8SDR software license – 5 license** 47. **Program parameters:** 48. 1.25 to 20 MHz bandwidth 49. QAM64 adaptive modulation 50. MIMO transmission possible 51. The minimum number of supported network nodes: 20 52. Possibility of two-way data exchange in one channel 53. Topology architecture - self-healing and self-formatting 54. Node addressing: IP 55. Ability to control parameters in the map-based application 56. Perpetual license 57. **Software license for AES256/AES128 encryption and decryption in radio modules - 6 license** 58. **Program parameters:** 59. AES256 encryption and decryption 60. AES2128 encryption and decryption 61. The possibility of implementing the item from the order description in radio modules 62. Perpetual license 63. **Factory new, unused radio sdr module with accessories – 1 set** 64. **Technical parameters** 65. The minimum operating frequency range is 1.98-2.55 GHz 66. Possible output power: 2x5W 67. Maximum sizes: 160mm, 160mm, 70mm 68. Minimum degree of protection: IP66 69. Maximum weight up to 2.5 kg 70. Software configurable RF bandwidth 1.25, 1.5, 1.75, 2.5, 3.0, 3.5, 5.0, 6.0, 7.0, 8.0, 10.0, 12, 0, 14.0, 16.0, 20.0 MHz 71. Tuning step: 125 kHz 72. Supply voltage: 8..18V 73. Power consumption up to 60W 74. Receiver sensitivity: -98dBm (BW 2.5MHz / BPSK 1/2) 75. Equipment:     1. Ethernet cable     2. Power cable     3. Microphone     4. Control cable     5. Software to control all parameters in a map based application     6. Antennas with a gain of 4.5 dBi 4 pcs 76. Possibility of transmitting in two polarities (MIMO) 77. Possible bitrate 87 Mb/s (MESH topology) 78. Minimum operating temperature range: -20 ° C to + 50 °C 79. Built-in GPS receiver 80. 64Gb of on-board storage with store & forward functionality 81. Radio interfaces:     1. Antenna A Channel 1 receive only     2. Antenna B Channel 1 switched transmit/receive     3. Antenna C Channel 2 receive only     4. Antenna D Channel 2 switched transmit/receive Wejścia /wyjścia     5. GPS antenna interface SMA female 82. Inputs/Outputs 83. Power and Ethernet: 6-way Amphenol 38999 series 3 84. Ethernet: RJ45 85. Config & data: 22-way Amphenol 38999 series 3 86. Camera video & power 4-way Amphenol 62GB 87. SDI/HD-SDI BNC female 75Ω 88. USB Type A 89. **Program parameters** 90. COFDM transmission coding 91. Carrier modulation: BPSK, QPSK, 16QAM, 64QAM 92. Connection topology: MESH 93. Transmission compression capability: H.264 AVC / H.264 / MPEG-4 Part 10 High Profile 4.0 94. SDRAPP-MESH suport 95. Remote control: Web browser GUI and external application 96. Possibility of transmission encryption: AES 256 97. Possibility of IP addressing: static and dynamic 98. Supports two 1920x1080p30 video streams simultaneously 99. **Factory new, unused radio amplifier module 5w power with accessories – 10 set** 100. **Technical parameters** 101. Linear RMS characteristic 102. Power gain> 20dB 103. Efficiency> 16% 104. Integrated transmit / receive switch 105. Low noise RF return path, gain 4dB 106. Power 10-18V DC 107. Current consumption up to 3.5A at 10V 108. Working temperature -10..50 °C 109. 50Ω impedance 110. Weight < 150g 111. SMA-F antenna connectors 112. 7-pin control connector 113. 2 dBi gain antennas included 114. Possibility of connection with radio modules of the subject from the order description |  |  |  |

***The document should be submitted in an electronic form with a qualified electronic signature, a trusted signature or a personal signature by an authorized person***

***\*) delete as appropriate***