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: ......................................................................................................................................

 ......................................................................................................................................

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
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***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***