



Program for state defense and security: Development of modern, breakthrough technologies for state security and defense under the codename "SZAFIR".

Project: Optical technologies of quantum cryptology for data protection in ICT networks.



Attachment No. 1 to the Request for Quotation No. 03/2024/OPTOKRYPT

Contract Subject Description



Program for state defense and security: Development of modern, breakthrough technologies for state security and defense under the codename "SZAFIR".

Project: Optical technologies of quantum cryptology for data protection in ICT networks.



Table of contents

1. Photodetector.....	3
1.1. Specification.....	3
1.2. Other information	3
2. Power Source	4
2.1. Specification.....	4
2.2. Other information	4

1. Photodetector

1.1. Specification

- Rise time: no more than 35ps;
- Bandwidth: no less than 10GHz;
- Spectral range:
 - no less than 800nm,
 - no more than 1700nm;
- Dark Current: no more than 0,3nA;
- Fiber:
 - SMF-28 fiber,
 - length: 1m;
- Sensitive area: diameter no less than 9 μ m;
- Fiber optic connector: FC/APC;
- RF Connector: SMA;
- Quantum Efficiency: no less than 80%;
- Connector for the RF output.

1.2. Other information

Quantity: 4 pcs.

2. Power Source

2.1. Specification

- Low-Noise Power Supply;
- Input voltage: 230VAC;
- Output voltage: 12VDC.

2.2. Other information

Quantity: 4 pcs.