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| *Поз.**обознач.* | | | *Наименование* | | | | | *Кол.* | | | *Примечание* | | |
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|  | | | Датчики | | | | |  | | |  | | |
|  | | |  | | | | |  | | |  | | |
| *DA*1*…DA*3 | | | *Датчик пассажиропотока* | | | | | 3 | | | IRMA MATRIX | | |
|  | | |  | | | | |  | | |  | | |
|  | | | Валидаторы | | | | |  | | |  | | |
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| *DD*1*…DD*3 | | | *Электронный валидатор оплаты проезда бесконтактными смарт-картами* | | | | | 3 | | | CVB | | |
| *DA*4*…DA*6 | | | *Электронный валидатор оплаты проезда бумажными билетами* | | | | | 3 | | | СVT | | |
|  | | |  | | | | |  | | |  | | |
|  | | | Кнопочные переключатели | | | | |  | | |  | | |
|  | | |  | | | | |  | | |  | | |
| *SB*1*, SB*2 | | | *Переключатель кнопочный PBS-26B* | | | | | 2 | | |  | | |
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|  | | | Микросхемы | | | | |  | | |  | | |
|  | | |  | | | | |  | | |  | | |
| *DD*4 | | | *AP*89042 | | | | | 1 | | |  | | |
| *DD*5*, DD*8*, DD*7*, DS*1*, G*1 | | | *MPC-*800 | | | | | 1 | | | Multitronics | | |
| *DD*11 | | | *К*176*ЛЕ*5 | | | | | 1 | | |  | | |
| *DD*10 | | | *К*561*ЛП*2 | | | | | 1 | | |  | | |
| *G*2*, G*3 | | | *AD*9832*BRUZ* | | | | | 2 | | |  | | |
| *DA*7*, DA*10*, DA*11 | | | 525*ПС*1 | | | | | 3 | | |  | | |
| *Z*1*, Z*2 | | | *ФП*1*П*8*-*62-01 | | | | | 2 | | |  | | |
| *DA*8*, DA*9*, DA*12 | | | *ТИШЖ.*468523.016 | | | | | 3 | | |  | | |
| *A*2 | | | *AD*549*LHZ* | | | | | 1 | | |  | | |
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| *Изм* | *Лист* | *№ докум.* | | *Подп.* | *Дата* |
| *Разраб.* | | *Минчуков* | |  |  | *Передатчик данных транспортного средства*  *Перечень элементов* | *Лит* | | | | | *Лист* | *Листов* |
| *Пров.* | | *Сорока* | |  |  |  | | *Т* |  | | *1* | *2* |
| *Т.контр.* | | *Сорока* | |  |  | *кафедра СУ, гр. 422402* | | | | | | |
| *Н.контр* | | *Сорока* | |  |  |
| *Утв.* | | *Марков* | |  |  |

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| *Поз.**обознач.* | | | *Наименование* | | | | *Кол.* | *Примечание* | |
|  | | |  | | | |  |  | |
|  | | | Резисторы | | | |  |  | |
|  | | |  | | | |  |  | |
| *R*1 | | | *MF*-25-10 Ом ± 0,1 % | | | | 1 | Симметрон | |
| *R*2 | | | *MF*-25-90 кОм ± 0,1 % | | | | 1 | Симметрон | |
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|  |  |  | |  |  | *ГУИР.424358.017 ПЭ3* | | | *Лист* |
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| *Изм.* | *Лист* | *№ докум.* | | *Подп.* | *Дата* |

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| *Поз.**обознач.* | | | *Наименование* | | | | | *Кол.* | | | *Примечание* | | |
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|  | | | Микросхемы | | | | |  | | |  | | |
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| *DD*1*, DD*14*, DD*17*, DD*31*, DD*32 | | | *К*561*ЛП*2 | | | | | 5 | | |  | | |
| *DD*3*, DD*6*, DD*20*, DD*21*, DD*23*, DD*30 | | | *К*155*ЛЛ*1 | | | | | *6* | | |  | | |
| *DD*2*, DD*4*, DD*5*, DD*7*, DD*8*, DD*13*,* | | | *К*155*ЛИ*1 | | | | | *6* | | |  | | |
| *DD*15 | | | *К*176*ЛЕ*5 | | | | | 1 | | |  | | |
| *DA*1*…DA*4 | | | *RT*114024 | | | | | 4 | | |  | | |
| *DT*2*, DT*4*…DT*7*,* | | | *К*561*ТР*2 | | | | | *5* | | |  | | |
| *DT*3*, DT*8*…DT*14 | | | 74*HC*374*D* | | | | | *8* | | |  | | |
| *DS*1*, DD*9*,G*2 *DD*10*…DD*12  *DD*18*, DD*19*,* | | | *AT*89*C*5131*A* | | | | | 1 | | | Atmel | | |
| *DD*22 | | | 74*HC*4051*D.*653 | | | | | 1 | | |  | | |
| *G*3*, G*4 | | | *AD*9832*BRUZ* | | | | | 2 | | |  | | |
| *DA*5*, DA*8*, DA*9 | | | 525*ПС1* | | | | | 3 | | |  | | |
| *Z*1, *Z*2 | | | *ФП*1*П*8*-*62-01 | | | | | 2 | | |  | | |
| *DA*6*, DA*7*, DA*10 | | | *ТИШЖ.*468523.016 | | | | | 3 | | |  | | |
| *A*2 | | | *AD*549*LHZ* | | | | | 1 | | |  | | |
| *G*1 | | | *NE*564*N* | | | | | 1 | | |  | | |
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|  | | | Резисторы | | | | |  | | |  | | |
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| *R*1 | | | *MF*-25-10 Ом ± 0,1 % | | | | | 1 | | | Симметрон | | |
| *R*2 | | | *MF*-25-90 кОм ± 0,1 % | | | | | 1 | | | Симметрон | | |
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| *Изм* | *Лист* | *№ докум.* | | *Подп.* | *Дата* |
| *Разраб.* | | *Минчуков* | |  |  | *Считыватель данных на пункте регистрации*  *Перечень элементов* | *Лит* | | | | | *Лист* | *Листов* |
| *Пров.* | | *Сорока* | |  |  |  | | *Т* |  | | *1* | *1* |
| *Т.контр.* | | *Сорока* | |  |  | *Кафедра СУ, гр. 422402* | | | | | | |
| *Н.контр* | | *Сорока* | |  |  |
| *Утв.* | | *Марков* | |  |  |
| *Поз.**обознач.* | | | *Наименование* | | | | | *Кол.* | | | *Примечание* | | |
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|  | | | Микросхемы | | | | |  | | |  | | |
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| *DD*2*, DD*3*, DD*12 | | | *К*561*ЛП*2 | | | | | 3 | | |  | | |
| *DD*4*, DD*5*, DD*8*…DD*10*, DD*13*, DD*16*, DD*17 | | | *К*155*ЛЛ*1 | | | | | *8* | | |  | | |
| *DD*13*, DD*5 | | | *К*176*ЛЕ*5 | | | | | 2 | | |  | | |
| *DA*1*, DA*2*, DA*9*, DA*10 | | | *RT*114024 | | | | | 4 | | |  | | |
| *DT*8*, DT*9 | | | *К*561*ТР*2 | | | | | 2 | | |  | | |
| *DT*1*…DT*6 | | | 74*HC*374*D* | | | | | 8 | | |  | | |
| *D*1*…D*3*, DD*7*, G*3*, DD*11*, DD*9*, DD*14*, DD*15 | | | *AT*89*C*5131*A* | | | | | 1 | | | Atmel | | |
| *DD*6 | | | 74*HC*4051*D.*653 | | | | | 1 | | |  | | |
| *G*1*, G*2 | | | *AD*9832*BRUZ* | | | | | 2 | | |  | | |
| *DA*3*, DA*6*, DA*7 | | | 525*ПС1* | | | | | 3 | | |  | | |
| *Z*1*, Z*2 | | | *ФП*1*П*8*-*62-01 | | | | | 2 | | |  | | |
| *DA*4*, DA*5*, DA*8 | | | *ТИШЖ.*468523.016 | | | | | 3 | | |  | | |
| *A*1 | | | *AD*549*LHZ* | | | | | 1 | | |  | | |
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|  | | | Резисторы | | | | |  | | |  | | |
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| *R*1 | | | *MF*-25-10 Ом ± 0,1 % | | | | | 1 | | | Симметрон | | |
| *R*2 | | | *MF*-25-90 кОм ± 0,1 % | | | | | 1 | | | Симметрон | | |
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| *Изм* | *Лист* | *№ докум.* | | *Подп.* | *Дата* |
| *Разраб.* | | *Минчуков* | |  |  | *Формирователь команды корректировки маршрута*  *Перечень элементов* | *Лит* | | | | | *Лист* | *Листов* |
| *Пров.* | | *Сорока* | |  |  |  | | *Т* |  | | *1* | *1* |
| *Т.контр.* | | *Сорока* | |  |  | *Кафедра СУ, гр. 422402* | | | | | | |
| *Н.контр* | | *Сорока* | |  |  |
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| *Поз.**обознач.* | | | *Наименование* | | | | | *Кол.* | | | *Примечание* | | |
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|  | | | Микросхемы | | | | |  | | |  | | |
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| *DD*2*, DD*3*, DD*8*, DD*10*, DD*9*, DD*16*, DD*20 | | | *К*561*ЛП*2 | | | | | 7 | | |  | | |
| *DD*6*, DD*13*, DD*14*, DD*21 | | | *К*155*ЛЛ*1 | | | | | *6* | | |  | | |
| *DD*11*, DD*17 | | | *К*155*ЛИ*1 | | | | | *2* | | |  | | |
| *DD*1*, DD*4*, DD*18*, DD*21 | | | *К*176*ЛЕ*5 | | | | | 4 | | |  | | |
| *DA*1*, DA*2 | | | *RT*114024 | | | | | 2 | | |  | | |
| *DT*2*, DT*11 | | | *К*561*ТР*2 | | | | | *2* | | |  | | |
| *DT*3*…DT*10 | | | 74*HC*374*D* | | | | | *8* | | |  | | |
| *DS*1*, DS*2*, DD*5*, DD*7*, DD*12*, DD*19 | | | *MPC-*800 | | | | | 1 | | | Multitronics | | |
| *A*1 | | | *LOG*101*,TL*441 | | | | | 1 | | |  | | |
| *G*1 | | | *NE*564*N* | | | | | 1 | | |  | | |
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| *R*1 | | | *MF*-25-10 Ом ± 0,1 % | | | | | 1 | | | Симметрон | | |
|  | | |  | | | | |  | | |  | | |
| *C*1, *C*2 | | | Чип керамический 1206-*X*7*R*-10 нф ±10 % | | | | | 2 | | | Epcos | | |
|  | | |  | | | | |  | | |  | | |
| *VT*1, *VT*2 | | | Транзистор *AUIRF*1404*ZS* | | | | | 2 | | |  | | |
|  | | |  | | | | |  | | |  | | |
| *G*3*, G*4 | | | Батарея литиевая *CR*1220|1*HF* | | | | | 2 | | | Panasonic | | |
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| *Изм* | *Лист* | *№ докум.* | | *Подп.* | *Дата* |
| *Разраб.* | | *Минчуков* | |  |  | *Приемник команды на корректировку маршрута*  *Перечень элементов* | *Лит* | | | | | *Лист* | *Листов* |
| *Пров.* | | *Сорока* | |  |  |  | | *Т* |  | | *1* | *1* |
| *Т.контр.* | | *Сорока* | |  |  | *Кафедра СУ, гр. 422402* | | | | | | |
| *Н.контр* | | *Сорока* | |  |  |
| *Утв.* | | *Марков* | |  |  |

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| *Поз.**обознач.* | | | *Наименование* | | | | | *Кол.* | | | *Примечание* | | |
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|  | | | Микросхемы | | | | |  | | |  | | |
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| *DD*2*, DD*4*, DD*8*, DD*10 | | | *К*561*ЛП*2 | | | | | 4 | | |  | | |
| *DD*6*, DD*13*,* | | | *К*155*ЛЛ*1 | | | | | *2* | | |  | | |
| *DD*11*, DD*14 | | | *К*155*ЛИ*1 | | | | | *2* | | |  | | |
| *DD*1*, DD*3 | | | *К*176*ЛЕ*5 | | | | | 2 | | |  | | |
| *DT*2 | | | *К*561*ТР*2 | | | | | *1* | | |  | | |
| *DT*4*…DT*11 | | | 74*HC*374*D* | | | | | *8* | | |  | | |
| *DS*1*, DS*2*,G*4 *DD*5*, DD*7*, DD*12*, DD*15, *DD*16*, DD*17 | | | *MPC-*800 | | | | | 9 | | | Multitronics | | |
| *A*1 | | | *LOG*101*,TL*441 | | | | | 1 | | |  | | |
| *G*3 | | | *NE*564*N* | | | | | 1 | | |  | | |
|  | | |  | | | | |  | | |  | | |
| *R*1 | | | *MF*-25-2 Ом ± 0,1 % | | | | | 1 | | | Симметрон | | |
|  | | |  | | | | |  | | |  | | |
| *C*1, *C*2 | | | Чип керамический 1206-*X*7*R*-10 нф ±10 % | | | | | 2 | | | Epcos | | |
|  | | |  | | | | |  | | |  | | |
| *VT*1, *VT*2 | | | Транзистор *AUIRF*1404*ZS* | | | | | 2 | | |  | | |
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| *G*1*, G*2 | | | Батарея литиевая *CR*1220|1*HF* | | | | | 2 | | | Panasonic | | |
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| *Изм* | *Лист* | *№ докум.* | | *Подп.* | *Дата* |
| *Разраб.* | | *Минчуков* | |  |  | *Приемник данных на остановочном пункте*  *Перечень элементов* | *Лит* | | | | | *Лист* | *Листов* |
| *Пров.* | | *Сорока* | |  |  |  | | *Т* |  | | *1* | *1* |
| *Т.контр.* | | *Сорока* | |  |  | *Кафедра СУ, гр. 422402* | | | | | | |
| *Н.контр* | | *Сорока* | |  |  |
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| *Поз.**обознач.* | | | *Наименование* | | | | | *Кол.* | | | *Примечание* | | |
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|  | | | Микросхемы | | | | |  | | |  | | |
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| *DD*2*, DD*3*, DD*8*, DD*10*, DD*9*, DD*16 | | | *К*561*ЛП*2 | | | | | 6 | | |  | | |
| *DD*6*, DD*13 | | | *К*155*ЛЛ*1 | | | | | 2 | | |  | | |
| *DD*11*, DD*14 | | | *К*155*ЛИ*1 | | | | | 2 | | |  | | |
| *DD*1*, DD*4*, DD*17 | | | *К*176*ЛЕ*5 | | | | | 3 | | |  | | |
| *DA*1*, DA*2 | | | *RT*114024 | | | | | 2 | | |  | | |
| *DT*2*, DT*12 | | | *К*561*ТР*2 | | | | | 2 | | |  | | |
| *DT*3*…DT*10 | | | 74*HC*374*D* | | | | | 8 | | |  | | |
| *D*1*, D*2*,G4 DD*5*, DD*7*, DD*12 | | | *MPC-*800 | | | | | 1 | | | Multitronics | | |
| *A*1 | | | *LOG*101*,TL*441 | | | | | 1 | | |  | | |
| *G*3 | | | *NE*564*N* | | | | | 1 | | |  | | |
|  | | |  | | | | |  | | |  | | |
| *R*1 | | | *MF*-25-10 Ом ± 0,1 % | | | | | 1 | | | Симметрон | | |
|  | | |  | | | | |  | | |  | | |
| *C*1, *C*2 | | | Чип керамический 1206-*X*7*R*-10 нф ±10 % | | | | | 2 | | | Epcos | | |
|  | | |  | | | | |  | | |  | | |
| *VT*1, *VT*2 | | | Транзистор *AUIRF*1404*ZS* | | | | | 2 | | |  | | |
|  | | |  | | | | |  | | |  | | |
| *G*1*, G*2 | | | Батарея литиевая *CR*1220|1*HF* | | | | | 2 | | | Panasonic | | |
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| *Изм* | *Лист* | *№ докум.* | | *Подп.* | *Дата* |
| *Разраб.* | | *Минчуков* | |  |  | *Приемник команды на диспетчерском пункте*  *Перечень элементов* | *Лит* | | | | | *Лист* | *Листов* |
| *Пров.* | | *Сорока* | |  |  |  | | *Т* |  | | *1* | *1* |
| *Т.контр.* | | *Сорока* | |  |  | *Кафедра СУ, гр. 422402* | | | | | | |
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| *Поз.**обознач.* | | | *Наименование* | | | | | *Кол.* | | | *Примечание* | | |
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|  | | | Микросхемы | | | | |  | | |  | | |
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| *DD*2*, DD*3 | | | *К*561*ЛП*2 | | | | | 2 | | |  | | |
| *DD*4*, DD*6 | | | *К*155*ЛЛ*1 | | | | | 2 | | |  | | |
| *DD*1 | | | *К*155*ЛИ*1 | | | | | 1 | | |  | | |
| *DD*7 | | | *К*176*ЛЕ*5 | | | | | 1 | | |  | | |
| *DT*6 | | | *К*561*ТР*2 | | | | | 1 | | |  | | |
| *DT*1*…DT*5 | | | 74*HC*374*D* | | | | | 5 | | |  | | |
| *DA*1*, DA*2 | | | *RT*114024 | | | | | 2 | | |  | | |
| *G*1*, DD*5*, DD*8 | | | *AT*89*C*5131*A* | | | | | 1 | | | Atmel | | |
| *DD*22 | | | 74*HC*4051*D.*653 | | | | | 1 | | |  | | |
| *G*2*, G*3 | | | *AD*9832*BRUZ* | | | | | 2 | | |  | | |
| *DA*3*, DA*4*, DA*5 | | | 525*ПС1* | | | | | 3 | | |  | | |
| *Z*1, *Z*2 | | | *ФП*1*П*8*-*62-01 | | | | | 2 | | |  | | |
| *DA*6*, DA*7*, DA*3 | | | *ТИШЖ.*468523.016 | | | | | 3 | | |  | | |
| *A*2 | | | *AD*549*LHZ* | | | | | 1 | | |  | | |
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|  | | | Резисторы | | | | |  | | |  | | |
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| *R*1 | | | *MF*-25-10 Ом ± 0,1 % | | | | | 1 | | | Симметрон | | |
| *R*2 | | | *MF*-25-90 кОм ± 0,1 % | | | | | 1 | | | Симметрон | | |
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|  |  |  | |  |  | *ГУИР.424358.023 ПЭ3* | | | | | | | |
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| *Изм* | *Лист* | *№ докум.* | | *Подп.* | *Дата* |
| *Разраб.* | | *Минчуков* | |  |  | *Считыватель данных на пункте регистрации*  *Перечень элементов* | *Лит* | | | | | *Лист* | *Листов* |
| *Пров.* | | *Сорока* | |  |  |  | | *Т* |  | | *1* | *1* |
| *Т.контр.* | | *Сорока* | |  |  | *Кафедра СУ, гр. 422402* | | | | | | |
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| *Поз.**обознач.* | | | *Наименование* | | | | | *Кол.* | | | *Примечание* | | |
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|  | | | Микросхемы | | | | |  | | |  | | |
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| *DD*2*, DD*3*,*  *DD*8*, DD*10, *DD*9*, DD*12 | | | *К*561*ЛП*2 | | | | | 6 | | |  | | |
| *DD*6 | | | *К*155*ЛЛ*1 | | | | | 1 | | |  | | |
| *DD*11 | | | *К*155*ЛИ*1 | | | | | 1 | | |  | | |
| *DD*1*, DD*4*, DD*13 | | | *К*176*ЛЕ*5 | | | | | 3 | | |  | | |
| *DT*2 | | | *К*561*ТР*2 | | | | | 1 | | |  | | |
| *DT*3*…DT*9 | | | 74*HC*374*D* | | | | | 7 | | |  | | |
| *G*2*, DD*5*, DD*7*, DS*1 | | | *AT*89*C*5131*A* | | | | | 1 | | | Atmel | | |
| *A*1 | | | *LOG*101*,TL*441 | | | | | 1 | | |  | | |
| *G*1 | | | *NE*564*N* | | | | | 1 | | |  | | |
|  | | |  | | | | |  | | |  | | |
| *R*1 | | | *MF*-25-10 Ом ± 0,1 % | | | | | 1 | | | Симметрон | | |
|  | | |  | | | | |  | | |  | | |
| *C*1, *C*2 | | | Чип керамический 1206-*X*7*R*-10 нф ±10 % | | | | | 2 | | | Epcos | | |
|  | | |  | | | | |  | | |  | | |
| *VT*1, *VT*2 | | | Транзистор *AUIRF*1404*ZS* | | | | | 2 | | |  | | |
|  | | |  | | | | |  | | |  | | |
| *G*3*, G*4 | | | Батарея литиевая *CR*1220|1*HF* | | | | | 2 | | | Panasonic | | |
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|  |  |  | |  |  | *ГУИР.424358.022 ПЭ3* | | | | | | | |
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| *Изм* | *Лист* | *№ докум.* | | *Подп.* | *Дата* |
| *Разраб.* | | *Минчуков* | |  |  | *Приемник сигнала ТС*  *Перечень элементов* | *Лит* | | | | | *Лист* | *Листов* |
| *Пров.* | | *Сорока* | |  |  |  | | *Т* |  | | *1* | *1* |
| *Т.контр.* | | *Сорока* | |  |  | *Кафедра СУ, гр. 422402* | | | | | | |
| *Н.контр* | | *Сорока* | |  |  |
| *Утв.* | | *Марков* | |  |  |