

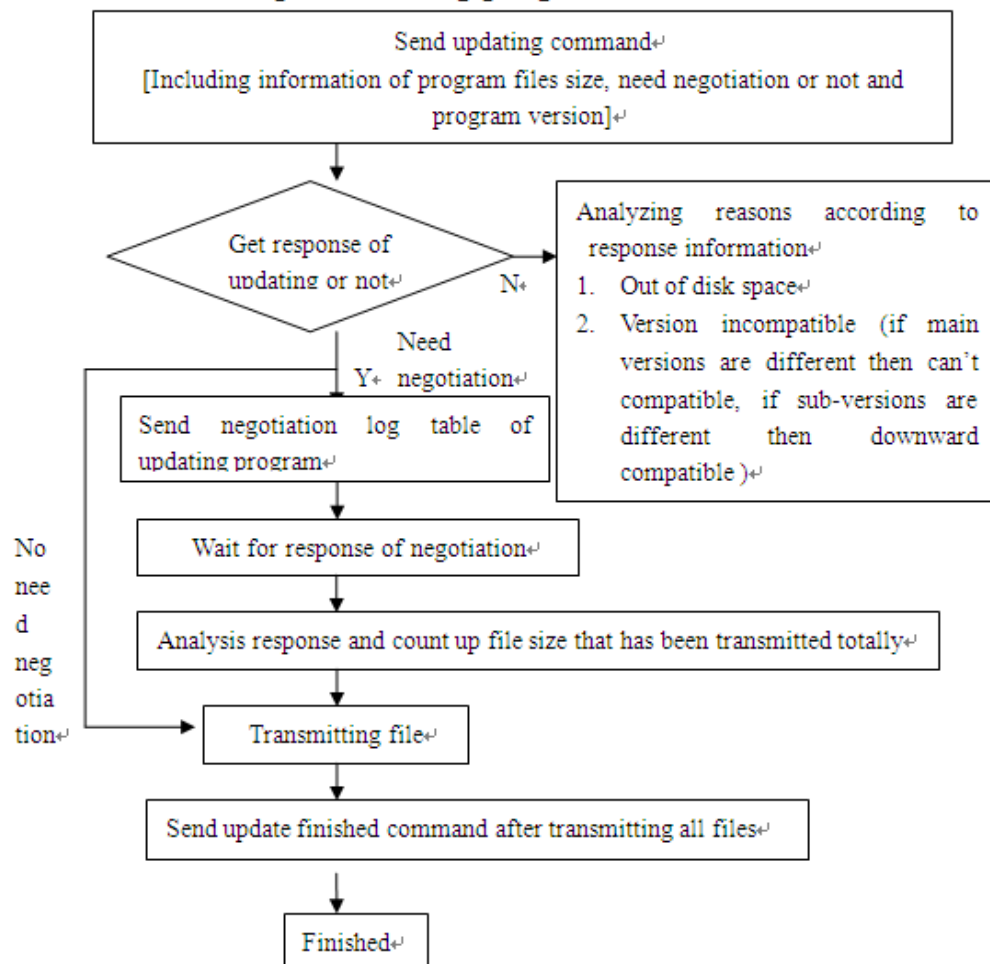


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- 1.Current flow is only applicable to the LAN transmission program(no support GPRS,3G,LedDataServer).
- 2.Because protocol develop complex and difficult, So we do not provide detailed technical support work ,and do not provide transmission program communication protocol by GPRS,3G and LedDataServer.
- 3.Recommended DLL implementation program transmission.

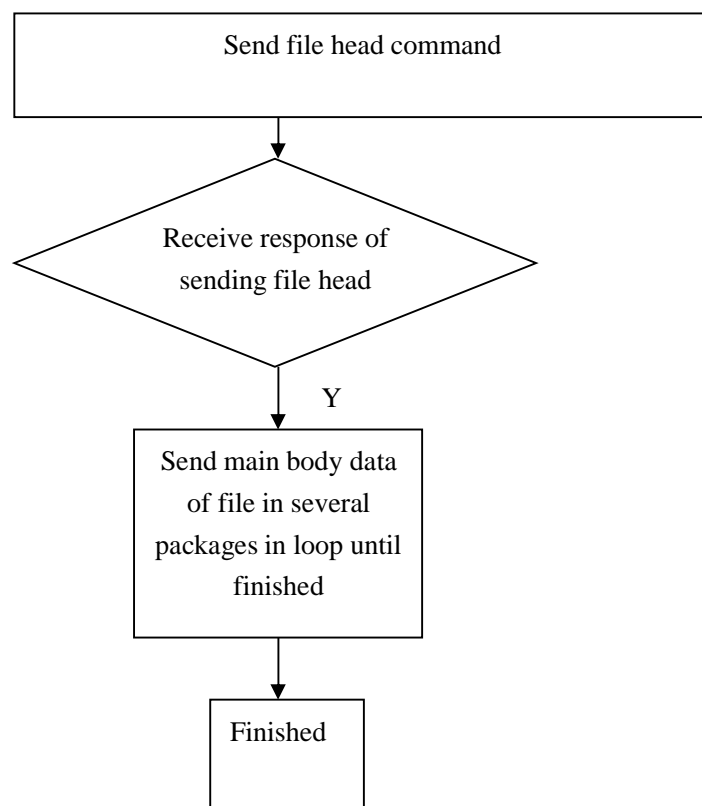


Steps of sending program





Send file via LAN port





Command of sending program

Protocol head (3bytes)	Command type (1byte)	Reserve (4bytes)	Main body length (4bytes)	Main body				Check code
				Program size (4bytes)	Main version (4bytes)	Subversion (4bytes)	Send program Timeout(4bytes) Unit:sec	
					0x00000009	0x2a013373	60	
0x7e0x7e0x7e	0x15	0	0x10					

Response

Protocol head (3bytes)	Command type (1byte)	Reserve (4bytes)	Main body length (4bytes)	Main body		Check code
				(4bytes) return value 0: success		
				(4bytes) return value 1 : failed, out of disk space	Size of disk space	
				(4bytes) return value 2 : failed, version incompatible	Character string of version	
0x7e0x7e0x7e	0x15+0x40	0				

Command of getting system status

Protocol head (3bytes)	Command type (1byte)	Reserve (4bytes)	Main body length (4bytes)	Main body	Check code
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0x7e0x7e0x7e	0x17	0	4	0	
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Response

Protocol head (3bytes)	Command type (1byte)	Reserve (4bytes)	Main body length (4bytes)	Main body					Check code
				Screen width (4bytes)	Screen height (4bytes)	Status (4bytes) 0: normal 1: sending program 2: updating firmware 3: control card abnormal	Disk size (4bytes)	Character string of version number	
0x7e0x7e0x7e	0x17+0x40	0							

Command of sending file head

Protocol head (3bytes)	Command type	Reserve (4bytes)	Main body length	Main body	Check code
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	(1byte)		(4bytes)	File size (4bytes)	Size of each package(4bytes)	Total number of data package (4bytes)	Disk type (4bytes)	Character string of file path name (include relative path and file name)	
0x7e0x7e0x7e	0x18	0							

Disk type: **FILE_POSITION_TYPE_PROGRAM_01=4** , //directory of save program
FILE_POSITION_TYPE_TEMP=5 , //temporary directory

Response

Protocol head (3bytes)	Command type (1byte)	Reserve (4bytes)	Main body length (4bytes)	Main body		Check code
				On/off	Response value	
0x7e0x7e0x7e	0x18+0x40	0		0: off; 1: on	0: success; 1 : failed	

Command of sending file's main body package

Protocol head (3bytes)	Command (1byte)	Reserve (4bytes)	Main body length (4bytes)	Main body	Check code
				File data	
0x7e0x7e0x7e	0x19	0			

Response

Protocol head (3bytes)	Command type	Reserve (4bytes)	Main body length	Main body	Check code
				Index of next package	



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	(1byte)		(4bytes)		
0x7e0x7e0x7e	0x19+0x40	0			

Command of send program finished

Protocol head (3bytes)	Command type (1byte)	Reserve (4bytes)	Main body length (4bytes)	Main body	Check code
0x7e0x7e0x7e	0x1a	0			

Response

Protocol head (3bytes)	Command type (1byte)	Reserve (4bytes)	Main body length (4bytes)	Main body	Check code
				0: success ; 1: failed	
0x7e0x7e0x7e	0x1a+0x40	0			

Send negotiation command

Protocol head (3bytes)	Command type (1byte)	Reserve (4bytes)	Main body length (4bytes)	Main body		Check code
				If need negotiation	Character string of path name of negotiation file , example "pro9\contab.txt"	
0x7e0x7e0x7e	0x1b	0	8+character string length of path name of negotiation file			

Response

Protocol head	Command	Reserve	Main body	Main body	Check code
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(3bytes)	type (1byte)	(4bytes)	length (4bytes)	0: success ; 1: failed (4bytes)	Bitwise, lowest to the highest, means negotiations serial number increases from the beginning respectively	
0x7e0x7e0x7e	0x1b+0x40	0				