

Modulus FTP Server Notes

The Modulus FTP Server can transfer files into and out of the C drive if a SD card is present. This is a limited server and can only have one connection connected to it at a time. If the “Allow Anonymous Logins” is enabled then the server allows Anonymous logins. In this case the user name is “anonymous” and the password can be anything. The Server also uses the User Names and Passwords from the modulus security page, the permission levels are not used by the FTP server. If trouble shooting is needed, there is a monitor setting for FTP which will show the FTPS (and FTPC) traffic.

Tested Clients

- FileZilla – works in active and passive modes; Limit simultaneous connections to 1 max.
- Core FTP LE - works in active and passive modes.
- CoffeeCup Free FTP - works in active mode.
- WS_FTP – works in active mode.

Supported Commands

APPE	Append to file	
CWP	Change Working Directory	supported; but doesn't do anything.
DELE	Delete file	
LIST	List Directory	
NOOP	NOP	returns: 200 Command Successful
PASS	Password	
PASV	Set Passive Mode	
PORT	Set Port Mode	
PWD	Print Working Directory	returns: 257 "/" is current directory
RETR	Retrieve file	
STOR	Store file	overwrite file if it exists
SYST	System	returns: 215 Modulus <version>
TYPE	transfer type	support I,A,L7 & L8
USER	User	
QUIT	LogOut	

Server responses by command

Connection Establishment

220 Modulus FTP Server Ready.
421 Service not available, closing control connection

USER

530 Not logged in
421 Service not available, closing control connection
331 Anonymous login okay
331 Password required for <username>

PASS

230 User <username> logged in
530 Not logged in

CWP

200 Command Successful

PWD

257 "/" is current directory

QUIT

221 Service closing control connection

PORT

200 Command Successful
501 Syntax error in parameters or arguments
530 Not logged in

PASV

227 Entering Passive Mode (ip,ip,ip,ip,pn,pn)
501 Syntax error in parameters or arguments
530 Not logged in

TYPE

200 Command Successful
504 Command not implemented for that parameter
530 Not logged in

STOR

125 Data Connection already open; Transfer starting
226 Transfer complete
425 Can't open data connection :: send if we can't open data channel
426 Connection closed; transfer aborted :: send on timeout

451 Requested action aborted. Local error in processing
553 Requested action not taken. File name not allowed
501 Syntax error in parameters or arguments :: Send if there is no file name
530 Not logged in

RETR

125 Data Connection already open; Transfer starting
226 Transfer complete
425 Can't open data connection :: send if we can't open data channel
550 File Not Found
501 Syntax error in parameters or arguments :: Send if there is no file name
530 Not logged in

LIST

125 Data Connection already open; Transfer starting
226 Transfer complete
425 Can't open data connection :: send if we can't open data channel
530 Not logged in

APPE

125 Data Connection already open; Transfer starting
226 Transfer complete
425 Can't open data connection :: send if we can't open data channel
426 Connection closed; transfer aborted :: send on timeout
451 Requested action aborted. Local error in processing
553 Requested action not taken. File name not allowed
501 Syntax error in parameters or arguments :: Send if there is no file name
530 Not logged in

DELE

250 Requested file action okay, completed.
550 File Not Found
501 Syntax error in parameters or arguments :: Send if there is no file name
530 Not logged in

SYST

215 Modulus <version>

NOOP

200 Command Successful