Advantech AE Technical Share Document

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Category	■FAQ □SOP	Related OS	N/A
Abstract	What port should be opened when implementing Firewall on CODESYS RTE?		
Keyword	CODESYS, Port Number, Firewall		
Related Product	APAX-5580CDS		

■ **Problem Description:**

This document shows what port should be opened when implementing Firewall on CODESYS RTE.

■ **Answer:**

Firewall is a network security system that monitors and controls incoming and outgoing network traffic based on predetermined security rules. Block port number is very common security way to protect the system. Controllers are designated to be programmed. Thus, CODESYS compatible controllers need certain open network ports for their designated use. The default communication ports are listed below

Ports	Communication purpose	Reconfiguration possible?
1740 – 1743	UDP Runtime communication	No
11740	TCP Runtime communication	Yes
1217	TCP Gateway communication	Yes
8080	CODESYS WebServer	Yes
443	CODESYS WebServer (SSL)	Yes
4840	CODESYS OPC UA Server	Yes (since of CODESYS V3.5 SP7)

Please open those ports when CODESYS controller implements the firewall.
Please see more information in CODESYS Security White Paper:
https://www.codesys.com/fileadmin/data/customers/security/CODESYS-Security-Whitepaper.pdf