

>> Intro

IOT + AI + 웹프로그래밍 \rightarrow C,파이썬,리눅스,TCP/IP 필요 센서를 통해 데이터를 수집 \rightarrow 아두이노(통신모듈),라즈베리파이(인터넷통신 가능) 디바이스를 사용라즈베리파이 (개발용보드) \rightarrow 동작기반(OS,Linux) \rightarrow 고도화(AI)



통신을 위한 상호간의 약속 및 규약

1. Format : 형식(Syntax)

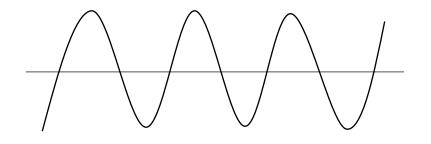
2. Meaning : 의미

3. Timing(타이밍)/Synch(동기화)/Procedure(절차)



Protocol

2) 무선



$$10Mhz - 25Khz = 0$$

3) 데이터

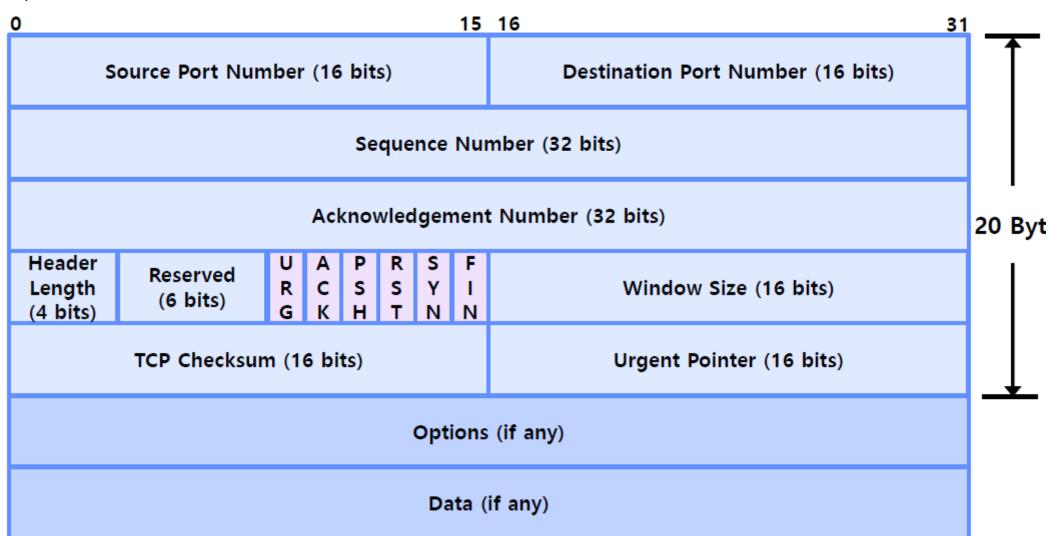
$$0000 = 0$$

$$0010 = 2$$

$$0011 = 3$$



1) TCP 헤더 구조





2) ARP 패킷 형식

Hardware Type		Protocol Type
Hardware length	Protocol length	Operation Request 1, Reply 2
Sender hardware address (For example, 6 bytes for Ethernet)		
Sender protocol address (For example, 4 bytes for IP)		
Target hardware address (For example, 6 bytes for Ethernet) (It is not filled in a request)		
Target protocol address (For example, 4 bytes for IP)		