APPENDIX D : DATA FORMAT



Header			Data	
Destination MAC address	Source MAC address	Туре	46(minimum)-1500(maximum)	
0	6	12	14	1514

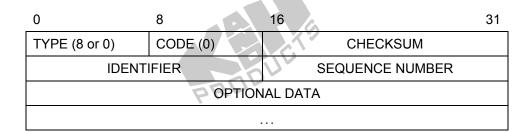
ARP Frame

0	9 1	6 24 31				
HARDWA	RE TYPE	PROTOCOL TYPE				
HLEN	PLEN	OPERATION				
SENDER HA (octets 0~3)						
SENDER HA	A(octets 4~5)	SENDER IP(octets 0~1)				
SENDER IP	(octets 2~3)	TARGET HA(octets 0~1)				
TARGET HA(octets 2~5)						
TARGET IP(octets 0~3)						

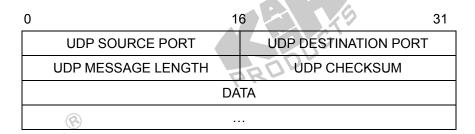
IP Datagram

(2) 0 15 16 31 4-bit 8-bit type of 4-bit header 16-bit total length(in bytes) version service(TOS) length 3-bit 6-bit identification 13-bit fragment offset flag 8-bit time to live 8-bit protocol 16-bit header checksum (TTL) 32-bit source IP address 32-bit destination IP address options(if any) Data

ICMP Datagram



UDP Packet



TCP Segment

0	4	10 1	16 24 3			
SOURCE PORT			DESTINATION PORT			
SEQUENCE NUMBER						
ACKNOWLEDGEMENT NUMBER						
HLEN	RESERVED	CODE BITS	WINDOW			
	CHECKSUM	1	URGENT POINTER			
	OPTI	ONS(IF ANY)	PADDING			
DATA						



