

PRODUCT INTRODUCTION

Protocol Support
for the MD1230A/31A Decode and Expert
Analysis Module

ANRITSU CORPORATION

Copyright © 2003 by ANRITSU CORPORATION

The contents of this manual shall not be disclosed in any way or reproduced in any media without the express written permission of Anritsu Corporation.

Protocol Support for the MD1230A/31A Decode and Expert Analysis Module



Discover What's Possible™



Anritsu reserves the right to make changes to this list.

Decodes in Suite	Protocol Family	Protocol Name	Description
	Apple Suite		
1		ADSP	AppleTalk Data Stream Protocol
2		AEP	AppleTalk Echo Protocol
3		AFP	AppleTalk Filing Protocol
4		ANBP	AppleTalk Name Binding Protocol
5		ASP	AppleTalk Session Protocol
6		ATP	AppleTalk Transaction Protocol
7		DDP	Datagram Delivery Protocol
8		DSI	Data Stream interface over IPV4
9		KSP	Keiwet Stream Protocol
10		LAP	AppleTalk Link Access Protocol
11		PAP	Printer Access Protocol
12		RTMP	Routing Table Maintenance Protocol
13		RTMP_REQ	Routing Table Maintenance Protocol Request
14		STALK	SoftTalk RPC protocol
15		TOPS	TOPS filing protocol (over STALK)
16		ZIP	AppleTalk Zone Information Protocol
	ATM Suite		
1		AAL1	ATM Adaptation Layer1
2		AAL2Cell	ATM Adaptation Layer2
3		AAL2Frm	ATM Adaptation Layer2
4		AAL34	ATM Adaptation Layer3_4
5		ARM	ARM
6		ATM	Asynchronous Transfer Mode
7		ATMSIG	ATM Signaling Protocol
8		BME	BME
9		CCP	CCP
10		ETH_MPOA	Multi Protocol Over ATM
11		GSMP	General Switch Management Protocol
12		IFMP	Ipsilon flow management protocol
13		ILMI	Integrated Local Management Interface
14		IPSILON_FLOW1	Ipsilon Flow Management Protocol Specification
15		IPSILON_FLOW2	Ipsilon Flow Management Protocol Specification
16		LANE8023	LAN Emulation Over ATM for Ethernet (802.3)
17		LANE8025	LAN Emulation Over ATM for Token Ring (802.5)
18		LANECTRL	LAN Emulation (Control Frames)
19		MPEG2	Moving Picture Experts Group2
20		MPOA	Multi Protocol Over ATM
21		NHRP	Next Hop Resolution Protocol

22		OAM	ATM Operation, Administration, and Maintenance (OAM)
23		PNNIROUT	Private Network to Network Interface Routing Protocol
24		PNNISIG	Private Network-to-Network Interface
25		RMCELL	Resource Management Cells
26		SPANS	Simple Protocol for ATM Network Signaling
27		SSCOP	Service-Specific Connection-Oriented Protocol
28		VIVID	VIVID
	Banyan Suite		
1		IP_TUNNEL_VIP	Banyan VINES-IP on IP
2		IPX_TUNNEL_VIP	Banyan VINES on IPX
3		UDP_TUNNEL_VIP	Banyan VINES-IP on UDP
4		VARP	VINES Address Resolution Protocol
5		VASYN	vines Asynchronous protocol
6		VDAC	vines directory assistance collector sevice
7		VDAL	vines directory assistance lookup sevice
8		VDEFL	vines PC deflector
9		VDIAG	vines Diagnostic service
10		VECHO	Vines Echo Protocol
11		VFILE	vines file sevice
12		VFRP	VINES Fragmentation Protocol
13		VFTP	vines ftp
14		VICP	Vines Internet Control Protocol
15		VINCOG	Vines Incognito Dynamic IP Address Assignment Service
16		VIPC	VINES Inter-Process Communication
17		VLLC	VINES over LLC
18		VLOOP	Vines Loopback Protocol
19		VMAIL	vines mail service
20		VMNGT	vines network manager
21		VNETB	
22		VNETB_RPC	vines netbios service
23		VNPIPES	VINES Named Pipes
24		VNRPC	NetRemote Procedure Call
25		VNRPC_OTHER	Unknown \Third party NET RPC
26		VPCB	vines PC backend interpreter
27		VPRNT	vines printer service
28		VRECHO	vines toolkit echo
29		VRTP	Vines Routing Update Protocol
30		VSARP	VINES Sequenced Address Resolution Protocol
31		VSMPPH	vines Semaphore Service
32		VSNA	vines SNA service
33		VSPP	Sequenced Packet Protocol
34		VSRTP	VINES Sequenced Routing Update Protocol
35		VSRV	VINES Server Service
36		VSTTK	Vines Street Talk
37		VSX	vines SX service
38		VTALK	vines talk (chat)
39		VTUNNEL_ARP	ARP on VINES-IP
40		VTUNNEL_ATALK	Apple Talk on Vines IP
41		VTUNNEL_IP	Banyan IP on VINES-IP

42		VTUNNEL_IPX	Banyan IPX on VINES-IP
43		VUDP_SVC	VINES NATIVE UDP
44		VVNG	vines vanguard sevice interpreter
Cisco Suite			
1		80210	VLAN Standardization
2		CISCO_CDP	Cisco Discovery Protocol
3		CISCO_CGMP	CISCO Group Management Protocol
4		CISCO_DISL	Dynamic Inter-Switch Link Protocol
5		CISCO_DRIP	Dual Ring Protocol
6		CISCO_ISL	Inter-Switch Link
7		CISCO_PAGP	Port Aggregation Protocol
8		CISCO_VTP	VLAN Trunk Protocol
CORBA Suite			
1		GIOP	CORBA General Inter-ORB (Object Request Broker) Protocol
Core Routing Suite			
1		LDP	Label Distribution Protocol / Constraint-based
2		MPLS	MultiProtocol Label Switching
3		MPLS_UNK_L2	MultiProtocol Label Switching
4		RSVP	Resource Reservation Protocol
Data Link Control Suite			
1		8021Q	Virtual LANs
2		AARP	Appletalk Address Resolution Protocol
3		ALAP	LocalTalk/ AppleTalk Link Access Protocol
4		ARP	TCP/IP ARP/RARP Address Resolution Protocol
5		BPDU	Bridge Protocol Data Unit
6		BTDP	Bay Topology Discovery Protocol
7		ETHER	EthernetII or IEEE 802.3 Ethernet
8		ETHER_EM	Embedded Ethernet
9		ETYPE	EtherType
10		FDDI	Fiber Distributed Data Interface
11		FDDIMAC	FDDI Media Access Control
12		GMRP	GARP Multicast Registration Protocol
13		GVRP	General Attribute Registration Protocol VLAN Registration Protocol
14		I802_11	IEEE 802.11 Wireless LAN Media Access Control
15		I802_1X	IEEE 802.1X Port based access control
16		I802_1XD	
17		LLC	IEEE 802.2 Logical Link Control
18		LOOP	LoopBack Assistance Protocol
19		RIF	Routing Information Field
20		SMT	FDDI Station Management
21		SNAP	IEEE Subnetwork Access Protocol && RFC 1483
22		TRING	Token Ring - IEEE 802.5
23		TRING_EM	Embedded Token Ring
24		TRING_SH	Token Ring Short Header
25		TRMAC	Token Ring Media Access Control

	Digital DEC Suite		
1		CTERM	Network Command Terminal
2		DAP	DECnet Data Access Protocol
3		DRP	DECnet Routing Protocol
4		FOUND	Foundation Services
5		LAT	Local Area Transport Protocol
6		LAVC	DEC Local Area VAX Cluster protocol
7		MOPDL	Maintenance Operations Dump/Load
8		MOPRC	Maintenance Operations Remote Console Protocol
9		NICE	DECnet Network Information and Command Exchange Protocol
10		NSP	Network Services Protocol
11		SCP	DECnet Session Control Protocol
12		SCS	System Communication Services
	Embedded Suite		
1		FDDIECF	Echo Frame
2		FDDIESF	Extended Services Frame
3		FDDIFUTU	FDDI future frame
4		FDDIIMP	FDDI Implementor dependent frame
5		FDDINIF	Neighborhood Information Frame
6		FDDIPMF	Parameter Management Frame
7		FDDIRAF	Resource Allocation Frame
8		FDDIRDF	Request Denied Frame
9		FDDISIF	Status Information Frame
10		FDDISRF	Status Report Frame
11		FDDIVOID	Void frame
	Glue Suite		
1		WELL_SNA	Wellfleet Trailer
	IBM Token Ring		
1		APPN	Advanced Peer-to-Peer Networking
2		HPR	High Performance Routing Protocol (HPR)
3		IBMNM	IEEE 802.5
4		IBMRT	IBM GLUE
5		IRMA	IRMALAN
6		RPL	Remote Program Load
7		SNA	Systems Network Architecture
	IPV6		
1		ICMP6	Internet Control
2		IPDEMUX	IP demultiplexor
3		IPESP	Encapsulated Security protocol for IPv6
4		IPV6	Internet Protocol version 6
5		RIP6	Routing Protocol for IPv6
	ISDN Suite		
1		ISDN	Integrated Services Digital Network
2		LAPD	ISO Link Access Protocol for the ISDN D-channel
3		TO_TEI	Terminal endpoint identifier

ISO Suite			
1		ACSE	Association Control Service Element
2		CLNP	Connectionless Network Layer Protocol
3		CMIP	Common Management Information Protocol
4		ESIS	End-System to Intermediate-System routing protocol
5		FTAM	File Transfer and Access Management protocol
6		ISIS	Intermediate-System to Intermediate-System routing protocol
7		ISO_TP	Transport Layer Protocol, including TP0 through TP4
8		NETBIOS	NETBIOS over ISO
9		PRES	Presentation Layer Protocol
10		SESS	Session Layer Protocol
11		TARP	TID Address Resolution Protocol
12		USPS	USPS RBCSIEI
13		VTP	Virtual Terminal Protocol
14		X400P1	
15		X400P2	
16		X400RTS	X.400/MHS Reliable Transfer Service protocol
17		X500	X.500 Directory Server, ASN.1 also known as DAP and alot like LDAP/CLDAP
Microsoft Suite			
1		3NBP	3NBP
2		CRAYNETBIOS	CRAY NETBIOS
3		DCE_RPC	DCE RPC
4		MS_CL_DCERPC	MS Distributed Computing Environment / Remote Procedure Call
5		MS_DCOM	MS DCOM
6		MS_LSARPC	MS Local Security Authority Remote Procedure Call
7		MS_NETRLOGON	MS NETRLOGON
8		MS_SPOOLSS	MS Spool Service
9		MS_SRVSVCS	MS Server service
10		MS_WINSIF	MS WINSIF
11		MS_XCHG_DIRECTORY	MS Exchange Directory
12		MS_XCHG_MAPPER	MS Exchange Mapper
13		MS_XCHG_MTA	MS Exchange Message Transfer Agent
14		MS_XCHG_STORE	MS Exchange Store
15		NETBEUI_OTHER	NETBEUI
16		NETBIOS_LLC	NETBIOS LLC
17		SMB	SMB
18		SMB_BROWSER	SMB BROWSER
19		SMB_MAILSLOTS	SMB MAIL SLOTS
20		SMB_MSRRAP	SMB MSRRAP
21		SMB_NAMED_PIPES	SMB NAMED PIPES
22		SMB_NETLOGON	SMB NETLOGON
23		SMB_ON_TCP	SMB ON TCP
24		SMB_OTHER	SMB
25		WINS	WINS
NFS Suite			

1		MOUNT	MOUNT Protocol
2		ND	Sun Network Disk protocol
3		NDPS	Novell Distributed Print Services
4		NFS	Network File System, up to version 3
5		NIS	Network Information Protocol
6		NISBINDER	Sun Yellow Pages (YP) protocol
7		NLM	Network Lock Manager
8		NSM	Network Status Monitor
9		PMAP	Port Mapper Protocol
10		RPCB	RPC Bind protocol
11		RSTAT	RSTAT protocol
	Novell Suite		
1		IPX	Internet Packet Exchange
2		IPX_BURS	Packet Burst Mode
3		IPX_ECHO	IPX ECHO
4		IPX_ERR	
5		IPX_MOBILE	Mobile IPX (Netware) Service.
6		IPX_MSG	IPX Message
7		IPX_PING	Novell Packet Internet Groper
8		IPX_RIP	Netware Routing Information Protocol
9		IPX_SERI	IPX Serialization
10		IPX_WDOG	IPX Watchdog
11		IPXWAN	
12		NCP	NetWare Core Protocol
13		NCP1	IPX Netware Control Protocol
14		NDIAG	Novell Diagnostic Protocol
15		NDS	NetWare Directory Services
16		NETBIOS	NetBIOS over IPX
17		NLSP	Link State Protocol
18		NSAP	Server Advertisement Protocol
19		NTW	Netware
20		SPX	Sequenced Packet Exchange
21		TO_DSS	NetWare/IP SAP/RIP Protocol
	Oracle DBMS Suite		
1		TO_SQLNET_V2	ORACLE SQL Network for Firewalls
2		TO_TNS	ORACLE Transparent Network Substrate
	Sybase DBMS Suite		
1		TO_TDS	Tabular Data Stream
	TCPIP V4		
1		ATMP	Ascend Tunnel Management Protocol
2		AUTH	Internet Authentication Protocol
3		BGP	BGP Border Gateway Protocol (Up to Version 4)
4		BOOTP	Bootstrap Protocol
5		CDPD	Cellular Digital Packet Data
6		CDPD_SNDTCP	Subnetwork Dependent Convergence Protocol
7		CLDAP	Connectionless LightWeight Directory Access Protocol
8		CMOT	Common Management Information Services and Protocol over TCP/IP

9		DCAP	Data Link Switching Client Access Protocol
10		DHCP	Dynamic Host Configuration Protocol
11		DISCARD	Discard Protocol
12		DLSW	Data Link Switching Over TCP/IP
13		DNS	Domain Name Service
14		DSMCC	Digital Storage Media Command and Control
15		DVMRP	Distance Vector Multicast Routing Protocol (Version 3.0)
16		EAP	PPP Extensible Authentication Protocol
17		EGP	Exterior Gateway Protocol
18		EIGRP	Enhanced Interior Gateway Routing Protocol
19		FINGER	Internet Finger Information Protocol
20		FTP	File Transfer protocol
21		GDP	Gateway Discovery Protocol
22		GGP	Gateway-to-Gateway Protocol
23		GOPHER	GOPHER Protocol
24		GRE	Generic Routing Encapsulation
25		GTP	Wireless Tunneling Protocol
26		HCP	Host Command Protocol
27		ICMP	Internet Control Message Protocol
28		ICP	Internet Cache Protocol
29		IGMP	Internet Group Management Protocol (Version 1.0)
30		IGRP	Inter-Gateway Routing Protocol
31		IMAP	Internet Message Access Protocol
32		IP	Internet Protocol
33		IP_AUTH	IP Authentication Header
34		IP_MIN_ENCAP	Minimal Encapsulation for IP
35		IP_NETBI	NetBIOS SERVICE ON A TCP/UDP TRANSPORT
36		IP_RIP	Routing Information Protocol
37		ISAKMP	Internet Security Association and Key Management Protocol
38		ISODE	ISO Over TCP
39		KERBEROS	Kerberos Protocol
40		L2F	Layer Two Forwarding Protocol
41		L2TP	Layer 2 Tunneling Protocol
42		LDAP	Lightweight Directory Access Protocol
43		MDLP	Mobile Data Link Protocol
44		MNLP	Mobile Network Location Protocol
45		MNRP	Mobile Network Registration Protocol
46		MOBILIP	Mobile Internet Protocol
47		MOSPF	Multicast Open Shortest Path First (Routing
48		NNTP	NNTP Network News Transfer Protocol
49		NTP	Simple Network Time Protocol
50		OSPF	Open Shortest Path First Protocol
51		PGM	Pragmatic General Multicast
52		PIM	Protocol Independent Multicast, Sparse/Dense Mode
53		POP3	Post Office Protocol (Version 3)
54		PPPOE	PPP Over Ethernet
55		PPTP	Point-to-Point Tunneling Protocol
56		RADIUS	Remote Authentication Dial In User Service

57		RCP	Remote Cellblaster Protocol
58		SAP_R3	SAP R/3 protocol
59		SCSP	Server Cache Synchronization Protocol
60		SLP	Service Location Protocol (Version 1.0)
61		SME	Security Management Entity
62		SMTP	Simple Mail Transfer Protocol
63		SNMP	Simple Network Management Protocol (Up to version 3)
64		TCP	Transmission Control Protocol
65		TELNET	TELNET
66		TFTP	TFTP Trivial File Transfer Protocol
67		TRLR	Trailer header for IP
68		TSQL	Teradata network messages
69		UDP	User Datagram Protocol
70		UNIX_REX	REXEC
71		UNIX_RLO	RLOGIN
72		UNIX_RPR	RPRINT
73		UNIX_RSH	RSHELL
74		UNIX_RWH	RWHO
75		VRRP	Virtual Router Redundancy Protocol
76		YP	Yellow Pages or Network Information Services
	Universal Protocol		
1		ASN1	Abstract Syntax Notation One
2		RPC	Remote Procedure Call
	Vendor Suite		
1		CISCO_GL	Cisco Token Ring/SNA glue (aka Cisco Glue) over TCP/IP or WAN
2		NETMAP_TCP	NetMap TCP
3		NETMAP_XNS	NetMap XNS
4		NGCP	Network General Core Protocol
5		PROTEON_	Proteon Token Ring over TCP/IP
6		XTP	Express Transfer Protocol
	VONET Voice Over IP		
1		H225_USERINFO	H225 Call Signalling User Information
2		SIP	Session Initiation Protocol
3		MGCP	Media Gateway Control Protocol
4		H225_RAS	H225 Registration, Admission and Status (RAS) Protocol
5		H225_CALLSIG	H225 Call Signalling
6		H245_CALLCTL	H245 Call Control
7		RTP	Real-Time Transport Protocol
8		RTCP	Real-Time Control Protocol
9		SAP	Session Announcement Protocol
10		SKINNY	Cisco Skinny Client Control Protocol (SCCP)
11		MEGACO	Media Gateway Control Protocol
12		ITB301	Duetsche Bahn AG
13		SDP	Session Description Protocol
	WAN Suite		
1		CHAP	PPP Challenge Handshake Authentication Protocol (CHAP)

2		CISCO_HDR	Client indicates Cisco Router
3		COMBINET	Combinet ISDN Bridge
4		CROSSCOM	CrossCom Bridge
5		DGX25	Data General X.25
6		DXI_LMI	SMDS DXI Local Management Interface
7		ETYPE_OT	Other Ether Types
8		FR_CLLM	Frame Relay - Consolidated Link Layer Management
9		FR_FRAG	Frame Relay - Fragmentation Protocol
10		FR_LMI	Frame Relay Integrated Local Management Interface
11		FRAMEREL	Frame Relay
12		FRELAY_CONT	Multiprotocol Interconnect over Frame Relay
13		HDLC	High-level Data Link Control
14		PAD	X.25 Packet Assembler Disassembler
15		PAD_DATA	PAD DATA
16		PPP	Point to Point Protocol
17		Q933	Frame Relay - ITU Q.933 protocol
18		QLLC	Qualified Logical Link Control
19		ROUTER	Generic Router
20		SAP_OTHE	Interpret frames for SAPS not otherwise handled by Protocol Interpreters. Called after interp_llc in the event the frame's SAP is other than what is registered.
21		SASP	Bay Networks SS7-Internet Access Signaling Protocol
22		SDXI	Switched Multi Megabit Data Service - Data Exchange Protocol
23		SIP3	SMDS Interface
24		SLARP	Serial Line Address Resolution Protocol
25		SNDCP	Sub-Network Dependant Convergence Protocol
26		SRP	Spatial Reuse Protocol
27		VOFR	Voice Over Frame Relay and Cisco Signalling
28		WCP	Wellfleet Compression Protocol
29		X25	X.25
	WireLess Suite		
1		VCARD	The Electronic Business Card Version 2.1
2		WMLC	Wireless Markup Language Compressed
3		WSP	Wireless Session Protocol
4		WTLS	Wireless Transport Layer Security
5		WTP	Wireless Transaction Protocol
	X-Windows		
1		XWIN	Xwin Protocol
	Xerox Suite		
1		IDP	Xerox Internet Datagram Protocol over DLC (XNS/IDP)
2		IDP_LLC	3Com 3+ glue between LLC and IDP
3		PUP	Xerox PARC Universal Protocol
4		PUPARP	Xerox PUP Address Resolution Protocol

Anritsu

Specifications are subject to change without notice.

ANRITSU CORPORATION

5-10-27, Minamiazabu, Minato-ku, Tokyo 106-8570, Japan
 Phone: +81-3-3446-1111
 Telex: J34372
 Fax: +81-3-3442-0235

● U.S.A.

ANRITSU COMPANY

North American Region Headquarters

1155 East Collins Blvd., Richardson, TX 75081, U.S.A.
 Toll Free: 1-800-ANRITSU (267-4878)
 Phone: +1-972-644-1777
 Fax: +1-972-671-1877

● Canada

ANRITSU ELECTRONICS LTD.

700 Silver Seven Road, Suite 120, Kanata,
 ON K2V 1C3, Canada
 Phone: +1-613-591-2003
 Fax: +1-613-591-1006

● Brasil

ANRITSU ELETRÔNICA LTDA.

Praia de Botafogo 440, Sala 2401 CEP 22250-040,
 Rio de Janeiro, RJ, Brasil
 Phone: +55-21-5276922
 Fax: +55-21-537-1456

● U.K.

ANRITSU LTD.

200 Capability Green, Luton, Bedfordshire LU1 3LU, U.K.
 Phone: +44-1582-433200
 Fax: +44-1582-731303

● Germany

ANRITSU GmbH

Grafenberger Allee 54-56, 40237 Düsseldorf, Germany
 Phone: +49-211-96855-0
 Fax: +49-211-96855-55

● France

ANRITSU S.A.

9, Avenue du Québec Z.A. de Courtabœuf 91951 Les
 Ulis Cedex, France
 Phone: +33-1-60-92-15-50
 Fax: +33-1-64-46-10-65

● Italy

ANRITSU S.p.A.

Via Elio Vittorini, 129, 00144 Roma EUR, Italy
 Phone: +39-06-509-9711
 Fax: +39-06-502-24-25

● Sweden

ANRITSU AB

Botvid Center, Fittja Backe 1-3 145 84 Stockholm,
 Sweden
 Phone: +46-853470700
 Fax: +46-853470730

● Singapore

ANRITSU PTE LTD.

10, Hoe Chiang Road #07-01/02, Keppel Towers,
 Singapore 089315
 Phone: +65-6282-2400
 Fax: +65-6282-2533

● Hong Kong

ANRITSU COMPANY LTD.

Suite 719, 7/F., Chinachem Golden Plaza, 77 Mody
 Road, Tsimshatsui East, Kowloon, Hong Kong, China
 Phone: +852-2301-4980
 Fax: +852-2301-3545

● Korea

ANRITSU CORPORATION

8F Hyun Juk Bldg. 832-41, Yeoksam-dong,
 Kangnam-ku, Seoul, 135-080, Korea
 Phone: +82-2-553-6603
 Fax: +82-2-553-6604-5

● Australia

ANRITSU PTY LTD.

Unit 3/170 Forster Road Mt. Waverley, Victoria, 3149,
 Australia
 Phone: +61-3-9558-8177
 Fax: +61-3-9558-8255

● Taiwan

ANRITSU COMPANY INC.

7F, No. 316, Sec. 1, NeiHu Rd., Taipei, Taiwan
 Phone: +886-2-8751-1816
 Fax: +886-2-8751-1817

030326