

ARKANSAS PACKET NETWORK X1-J QUICK REFERENCE GUIDE

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SWITCH COMMANDS

ALIAS [* | NEW_ALIAS]
 BBS [CALLSIGN | * | ?]
 BTEXT [* | BEACON_MESSAGE_TEXT]
 BYE
 CALIBRATE [PERIOD_VALUE_FROM_1_TO_60 [TOGGLE_VALUE_1_TO_PERIOD]]
 CONNECT [CALLSIGN [[V] DIGILIST ...]]
 CQ [MESSAGE_FOR_CQ_PACKET]
 CTEXT [* | CONNECT_MESSAGE_TEXT]
 HELP
 HOST [CALLSIGN | * | ?]
 INFO [SYSOP_SET_MESSAGE]
 LINKS
 MHEARD [NUMBER_FROM_1_TO_100]
 MODE [{ NEWPARAM | * } { NEWPARAM | * }] (see note 2)
 NODES [* [*] | NODECALL {+|-} IDENT QUAL COUNT PORT NEIGHBOUR
 [DIGIS]]
 PARMS [{ NEWPARAM | * } { NEWPARAM | * }] (see note 2)
 QUIT
 RESET [ANY_CHARACTER]
 ROUTES [PORT NODECALL [DIGILIST ...] { + | - } PATHQUALITY]
 SYSOP
 TALK [STRING]
 UI DEST STRING_OF_TEXT_TO_BE_SENT_IN_UI_FRAME
 USERS

Note 1 Any command may be enabled or disabled by the use of the '+' or '-' modifier, as shown below :

ANY_COMMAND [+ | - | THAT_COMMANDS_PARAMETERS]

Commands may be caused to be displayed or not in the prompt screen if the '-' or '+' is followed by 'D' (or 'd')

Note 2 The commands will accept the 'old' syntax of '* * value...' or the new offset & value syntax of '/ parameter_number value'

NODE INTIALIZATION AFTER COLDBOOT

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C node
SYSOP
ADC - d
IPROUTE - d
DXCLUSTER - d
ARP - d
STATS - d
PARMS / 25 1
any other node specific values
INFO *****
BTEXT *****
CTEXT *****
ROUTES (lock in after they have been added to Routes list)
  RS-232 (2 node stack): 255  RS-232 (3 node stack): 248
  6m neighbor node: 192  2m neighbor node without 6m: 192
  (do not lock in non-network nodes, leave them at 100)

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PARMS PARAMETERS

Number	Min	Max	Function
1	1	400	Maximum number of destination nodes
2	0	255	Minimum quality for auto update
3	0	255	HDLIC (radio, port 0) default quality
4	0	255	RS232 (crosslink, port 1) default quality
5	0	255	Initial value for obsolescence counter
6	1	255	Minimum obsolescence for node broadcast
7	0	65535	Auto update broadcast interval (seconds)
8	0	255	Level 3 (network) Time To Live Initialiser
9	5	600	Level 4 (transport) timeout (seconds)
10	1	127	Level 4 (transport) retries
11	1	60	Level 4 (transport) ack delay (seconds)
12	1	1000	Level 4 (transport) busy delay (seconds)
13	1	127	Level 4 (transport) window size (frames)
14	1	127	Level 4 (transport) congestion ctrl threshold
15	0	65535	Level 7 (switch) inactivity timeout (seconds)
16	0	255	Persistance for transmit delay
17	0	127	Persistance slottime delay (10's of msec)
18	1	15	Level 2 (link) T1 timeout, ie FRACK (seconds)
19	1	7	Level 2 (link) window size (packets)
20	0	127	Level 2 (link) retries
21	0	6000	Level 2 (link) T2 timeout (10's of msec)
22	0	65535	Level 2 (link) T3 timeout (10's of msec)
23	0	1	Level 2 (link) digipeat enable flag
24	0	1	Callsign validation flag
25	0	2	Node beacon ctrl (0=off, 1=if active, 2=always)
26	0	1	CQ broadcasts enable flag

MODE PARAMETERS

Number	Min	Max	Function
1	0	1	Hardware handshake host control mode flag
2	0	3600	CWID repeat period (seconds)
3	4	10	CWID speed (10's msec per dot)
4	0	3	Nodes broadcast channel enable flags where 0=none, 1=HDLC only, 2=RS232 only, 3=Both ports
5	0	3	Crosslink protocol selection 0=crosslink, 1=KISS, 2=KISS+selective copy, 3=KISS+allcopy
6	0	255	TX keyup delay (10's of milliseconds)
7	0	1	Full duplex enable flag
8	0	65535	RS232 (port 1) node broadcast period (secs)
9	0	3	Node broadcast algorithm control flags 0=off, 2=RS232 port, 1 & 3 not normally used
10	600	3600	Beacon interval (seconds)
11	0	2	Connect redirection to BBS flag
12	0	255	Help messages flags, 8 bit TALK, case & TEXNET
13	0	3	Hash node broadcast disable (one bit per port)
14	0	1	Enable extra aliases monitoring if set
15	0	1	Enable auto reconnect to node after remote dis
16	0	3	Slime trail control. Each bit controls... Bit 0 if set hides slime trails in nodes list Bit 1 if set causes slime trails to be ignored
17	0	3	Digipeat control. Each bit controls ... Bit 0 set makes node to refuse digi'd L2 uplink Bit 1 set, node refuses to allow digi downlinks

HELP MESSAGES FLAGS (MODE Parameter 12)

BIT	FUNCTION
0	If set, the 'please wait, trying xxxx' operates
1	If set, all commands appear in help for sysop
2	If set, the 'goodbye' message is given
3	If set, a welcome message is enabled (CTEXT)
4	If set, nodes are shown as 'alias:callsign'
5	If set, TALK data is passed as 8 bit data
6	If set, node aliases are deemed to be case sensitive
7	If set, enables the TexNet "*** LINKED to" interface