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2  LONGMYND(1)
... General Commands Manual
... LONGMYND(1)
3
4  NAME
5      longmynd - Outputs transport streams from the Minitiouner
... DVB-S/S2 demodulator
6
7  SYNOPSIS
8      longmynd [-u USB_BUS USB_DEVICE]
9                  [-i MAIN_IP_ADDR MAIN_PORT | -t MAIN_TS_FIFO]
10                 [-I STATUS_IP_ADDR STATUS_PORT | -s MAIN_STATUS_FIFO]
11                 [-w] [-b] [-p h | -p v] [-r TS_TIMEOUT_PERIOD]
12                 [-S HALFSCAN_WIDTH]
13                 MAIN_FREQ[,ALT_FREQ] MAIN_SR[,ALT_SR]
14
15  DESCRIPTION
16      longmynd Interfaces to the Minitiouner hardware to search for
... and demodulate a DVB-S or DVB-S2 stream. This stream can be output
... either to a local FIFO (using the default or -t option) or to an IP
... address/port
17      via UDP.
18
19      The Main TS stream is the one coming out of the Primary FTDI
... Board.
20
21  OPTIONS
22      -u USB_BUS USB_DEVICE
23          Sets the USB Bus and USB Device Number of the required
... Minitiouner in a multi device system. Default uses the first detected
... Minitiouner.
24
25      -i IP_ADDR PORT
26          If UDP output is required (instead of the default FIFO
... output), this option sets the IP Address and Port to send the Main TS
... Stream to. Default is to use a FIFO for Main TS Stream.
27
28      -I IP_ADDR PORT
29          If UDP output is required (instead of the default FIFO
... output), this option sets the IP Address and Port to send the Main
... Status Stream to. Default is to use a FIFO for Main Status Stream.
30
31      -t TS_FIFO
32          Sets the name of the Main TS Stream output FIFO. Default
... is "./longmynd_main_ts".
33
34      -s STATUS_FIFO
35          Sets the name of the Status output FIFO. Default is
... "./longmynd_main_status".
36
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37      -w      If selected, this option swaps over the RF input so that
... the Main TS Stream is fed from the BOTTOM F-Type of the NIM. Default
... uses the TOP RF input for the Main TS stream.
38
39      -b      If selected, this option enables a tone audio output that
... will be present when DVB-S2 is being demodulated, and will increase in
... pitch for an increase in MER, to aid pointing. By default this option
... is
40                  disabled.
41
42      -p h | -p v
43                  Controls and enables the LNB supply voltage output when
... an RT5047A LNB Voltage Regulator is fitted. "-p v" will set 13V output
... (Vertical Polarisation), "-p h" will set 18V output (Horizontal
... Polarisa-
44                  tion). By default the RT5047A output is disabled.
45
46      -r TS_TIMEOUT_PERIOD
47                  Resets and reconfigures the NIM after this period in
... milliseconds without any valid TS packets (including Nulls.), or since
... last reset cycle. If multiple frequencies or multiple symbolrates are
... specified
48                  then these will be cycled through on each reset. When
... multiple frequencies and symbolrates are given, each frequency will be
... scanned for each symbolrate before moving on to the next frequency. Set
... to -1
49                  to disable. By default this is 5000 milliseconds.
50
51      -S HALFSCAN_WIDTH
52                  Sets the frequency scan half-width in ratio of the Symbol
... Rate. For example a value of '0.6' configures a ratio of +/-0.6. A value
... of approx. 20% greater than the intended functional width appears to
53                  work well. By default this is +/-1.5 * Symbol Rate.
54
55      MAIN_FREQ[,ALT_FREQ]
56                  specifies the starting frequency (in KHz) of the Main
... TS Stream search algorithm, and up to 3 alternative frequencies that
... will be scanned. The TS TIMEOUT must not be disabled to enable scanning
... func-
57                  tionality. When multiple frequencies and symbolrates are
... given, each frequency will be scanned for each symbolrate before moving
... on to the next frequency.
58
59      MAIN_SR
60                  specifies the starting Symbol Rate (in KSPS) of the Main
... TS Stream search algorithm, and up to 3 alternative symbolrates that
... will be scanned. The TS TIMEOUT must not be disabled to enable scanning
... func-
61                  tionality. When multiple frequencies and symbolrates are
... given, each frequency will be scanned for each symbolrate before moving
... on to the next frequency.

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62
63 EXAMPLES
64     longmynd 2000 2000
65         will find the first available Minitiouner, search for a
... 2MHz TS Stream at 2MSPS on the TOP RF input, output the TS to a FIFO
... called "longmynd_main_ts" and the status to a FIFO called
... "longmynd_main_sta-
66         tus".
67
68     longmynd -w 2000 2000
69         As above but uses the BOTTOM RF input.
70
71     longmynd -u 1 4 2000 2000
72         As above but will attempt to find a minitiouner at usb
... device 4 on usb bus 1.
73
74     longmynd -i 192.168.1.1 87 2000 2000
75         As above but any TS output will be to IP address
... 192.168.1.1 on port 87
76
77     longmynd -i 192.168.1.1 87 -r 5000 145000,146000 35,66,125
78         As above but after 5000 milliseconds with no TS data the
... Tuner configuration will be cycled to the next of the following
... combinations:
79         * 145 MHz, 35 Ks/s
80         * 145 MHz, 66 Ks/s
81         * 145 MHz, 125 Ks/s
82         * 146 MHz, 35 Ks/s
83         * 146 MHz, 66 Ks/s
84         * 146 MHz, 125 Ks/s
85         * [repeat from start]
86
87
... LONGMYND(1)
88     \ \ \
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