RaspberryPiã,'æ ¼å®‰SIMï¼‹USBé€šä¿¡ãƒ¢ã,¸ãƒ¥ãƒ¼ãƒ«ã•§é•‹ç"¨ã•™ã,‹ï¼ˆï¼'ï¼‰

Category : ã,µãƒ¼ãƒ•ç®¡ç•†æ—¥è¨˜
Published by M-naka on 2016/12/25

ã€€ã,¹ã,¿ãƒ³ãƒ‰ã,¢ãƒ-ãƒ¼ãƒ³é•‹ç"¨ã,'å‰•æ••ã•«RaspberryPiã•§å‹•ä½œã•™ã,‹3G-USBé€šä¿¡ã,¢ãƒ€ãƒ—ã,¿æƒ…å ±ã,'ã•¾ã•¨ã,•ã•¦ã•Šã••ã€,
ã€€OSã•¯Raspibianâ€¦â€¦ã• ã•Œã€•åŸºæœ¬ç§„ã•«Linuxã•ªã,‰å‹•ä½œã•™ã,‹ã•¯ã•šã€,

1.å‹•ä½œç¢ºèª•æ¸ˆã•¿é€šä¿¡ãƒ¢ã,¸ãƒ¥ãƒ¼ãƒ«

ã€€ã€•æŽ¨å¥¨/å‹•ä½œâ—Žã€'ã€€docomo L-02Aï¼ˆ3Gã€•HSDPAï¼‰ :/dev/ttyUSB0
ã€€ã€•æŽ¨å¥¨/å‹•ä½œâ—Žã€'ã€€docomo L-05Aï¼ˆ3Gã€•HSDPA/HSUPAï¼‰ :/dev/ttyUSB0
ã€€ã€•é•žæŽ¨å¥¨/å‹•ä½œâ–³ã€'docomo L-02Cï¼ˆLTEï¼‰ :/dev/ttyUSB2
ã€€ã€•æŽ¨å¥¨/å‹•ä½œâ—Žã€'ã€€ZTE MF120ï¼ˆ3Gã€•HSDPA/HSUPAï¼‰ :/dev/ttyUSB2
ã€€ã€•æŽ¨å¥¨/å‹•ä½œã€‡ã€'ã€€WILLCOM HX004INï¼ˆ3Gã€•HSDPA/HSUPAï¼‰:
ã€€ã€•æŽ¨å¥¨/å‹•ä½œâ—Žã€'ã€€WILLCOM HX003ZTï¼ˆ3Gã€•HSDPAï¼‰ :
ã€€ã€•æŽ¨å¥¨/å‹•ä½œâ—Žã€'ã€€WILLCOM HX008ZTï¼ˆ3Gã€•HSDPA/HSUPAï¼‰:

2.è©³ç´°æƒ…å ±

ãƒ»L-02C
ã€€
ã€Œä½¿ã•„ç¶šã•'ã,‹ã•¨é€šä¿¡ä¸•èƒ½ã•«ã•ªã,Šã€•å¾©æ—§ã•«ã•¯USBãƒ•ãƒ¼ãƒˆã•‹ã,‰ã•®ç‰©ç•†çš„å•–ã,Šå¤–ã•—ã•Œä¸•å•¯é•¿ã€•
ã•¨ã•„ã•†ã€•ã,¹ã,¿ãƒ³ãƒ‰ã,¢ãƒ-ãƒ¼ãƒ³é•‹ç"¨ã•«ã•¯è‡´å'½çš„ã•ªãƒ•ãƒ¼ãƒ‰ã,¦ã,§ã,¢ä»•æ§˜ã•®ã•Ÿã,•ã€•å‹•ä½œã,'â–³ã•«ã•—ã•¦ã•„ã,‹ã€,
ã€€ã•"ã•®ä¸•å…·å•ˆã•¯ATã,³ãƒžãƒ³ãƒ‰ã•«ã,ˆã,‹ãƒªã,»ãƒƒãƒˆ/Raspberry Piã•®å†•èµ·å‹•ã§ã•¯è§£æ¶ˆã•›ã•šã€**é€šé›»ã••ã•®ã,,ã•®ã,'ã,«ãƒƒãƒˆã•—ã•ªã•„ã•¨ã•„ã•'ã•ªã•„**æ¨¡æ§˜ã€,ã•"ã••ä¸€éƒ¨ã•®USB-HUBã•¯ã,³ãƒžãƒ³ãƒ‰ã•«ã,ˆã,‹ãƒ•ãƒ¼ãƒˆæ¯Žã•®é›»æº•ã,ªãƒ³/ã,ªãƒ•ã•Œå•¯èƒ½ã•ªæ©Ÿç¨®ã•Œå-˜åœ¨ã€•ã••ã,Œã•«ã,ˆã,‹ãˆ¶å¾¡ã•¯å•¯èƒ½ã,‰ã•—ã•„ã•Œã€•å¦‚ä½•ã•›ã,“**å€¤æ®µã•Œé«˜ã•„**ã•®ã•§å€‹ä°ºçš„ã•«ã•¯ãƒ'ã,¹ã€,

ãƒ»WILLCOM HX004IN

ã€€ã•„ã,•ã,†ã,‹**USB Composite Deviceï¼ˆUSBè¤‡å•ˆãƒ‡ãƒ•ã,¤ã,¹ï¼‰**ã•§ã€•Raspberry Piã•«æŒ¿ã•—ã•Ÿã• ã•'ã•§ã•¯é€šä¿¡ãƒ¢ã,¸ãƒ¥ãƒ¼ãƒ«ã•¨ã•—ã•¦è³-ã••ã,Œã•ªã•„ã€,Windowsï¼ˆ7ä»¥å‰•ï¼‰ã•§ã•®ä½¿ç"¨ã•¯å°‚ç"¨ã,¢ãƒ—ãƒªã,±ãƒ¼ã,·ãƒ§ãƒ³ä½µç"¨ã•Œå¿…é ˆã•¨ã•ªã,Šã€•ã,¢ãƒ—ãƒªã,±ãƒ¼ã,·ãƒ§ãƒ³ã•«ã,ˆã,‹ãƒ¢ãƒ¼ãƒ‰ã,¹ã,¤ãƒƒãƒ•ã•Œè¡Œã,•ã,Œã•¦ã•„ã,‹æ¨¡æ§˜ã€,
ã€€ã•"ã•®ã,ˆã•†ã•ªãƒ‡ãƒ•ã,¤ã,¹ã•®å´å•ˆã€•Raspberry Piã•§ejectã,³ãƒžãƒ³ãƒ‰ã,'å®Ÿè¡Œã•™ã,‹ã•"ã•¨ã•§ãƒ¢ãƒ¼ãƒ‰ã,¹ã,¤ãƒƒãƒ•ã•Œè¡Œã,•ã,Œã€•USBãƒ¢ãƒ‡ãƒ ãƒ¢ãƒ¼ãƒ‰ã•«ã•ªã,‹ã•"ã•¨ã•Œå¤šã•„ã•Œã€•HX004INã•§ã•¯ã•"ã,Œã•ŒåŠ¹ã•‹ã•ªã•„ã€,
ã€€è©¦è¡ŒéŒ¯è¤¤ã•®ç‹•æžœã€•usb_modeswitchã,'ã,¤ãƒ³ãƒˆãƒ¼ãƒ«ã€•ä»¥ä¸‹ã,'usb_modeswitch.confã•«è¨˜è¿°ã•—ã•¦å®Ÿè¡Œã•™ã,‹ã•"ã•¨ã•§è§£æ±ºã•—ã•Ÿã€,

DefaultVendor=0x11f6
DefaultProduct=0x0014
TargetVendor=0x11f6
TargetProduct=0x0013
MessageEndpoint=0x01
MessageContent="55534243123456788000000080000606f50402527000000000000000000000"

ã€€ã‚-ãƒ¢ã•¯ãƒ‡ãƒ•ã‚©ãƒ«ãƒˆã€Œ0x0014ã€•ã•§è³•è-˜ã••ã‚Œã‚‹ãƒ‡ãƒ•ã‚¤ã‚¹ã’ã€Œ0x0013ã€•ã•«åˆ‡ã‚Šæ›¿ã•ˆã‚‹ã•“ã•¨ã•¨ã€•MessageContentã•§å€¤ã‚'ä¸Žã•ˆã‚‹ã•“ã•¨ã•§ã€•MessageContentã•¯å•Œæ§˜ã•®æŒ™å‹•ã‚'ã•™ã‚‹ã‚¥ãƒ‡ãƒ•ã‚¤ã‚¹ï¼ˆã•„ã‚•ã•„ã‚•ã•„ã‚‹ï¼‰ã•¨å•Œã•˜ãƒ'ãƒ©ãƒ¡ãƒ¼ã‚¿ã‚'ä½¿ç"¨ã€‚çµ•æžœçš„ã•«ã•“ã‚Œã•§è‰¯ã•„ã‚‰ã•—ã•„ã€‚

ã€•2017/03/14è¿½è¨˜ã€‘
ã€€Linuxãƒ‡ã‚£ãƒˆãƒªãƒ“ãƒ¥ãƒ¼ã‚·ãƒ§ãƒ³ã•«ã‚ˆã•£ã•¦ã•¯ModemManagerã•Œã‚¤ãƒ³ãƒˆãƒ¼ãƒ«ã••ã‚Œã•¦ã•„ã‚‹å´ å•ˆã•Œã•‚ã‚Šã€•ã•“ã‚Œã•Œãƒ‡ãƒ¼ãƒ¢ãƒ³è¡·å‹•ã•—ã•¦ã•„ã‚‹ã•¨ã€•usb_modeswitchå®Ÿè¡Œã‚Œ¾Œã„ãƒ‡ãƒ•ã‚¤ã•Œã••ã•¡ã‚‰ã•«æŽ´ã•¾ã‚Œã•£ã•±ã•ªã•—ã•«ã•ªã‚Šã€•usbserialãƒ¢ã‚¸ãƒ¥ãƒ¼ãƒ«ã•¨ttyUSB0ï½ž2ã•®ãƒ•ã‚¤ãƒ³ãƒ‰ã•Œè¡Œã‚‹ã‚Œã•ªã•„ã€‚ã•“ã•®ã•Ÿã‚•ã€•systemdã„chk configã•§ModemManagerã•®ãƒ‡ãƒ¼ãƒ¢ãƒ³è¡·å‹•ã‚'åˆ‡ã•£ã•¦ã•Šã••ã€‚ã••ã•®ã•†ã•ˆã•§ã€•
ã€€modprobe usbserial vendor=0x11f6 product=0x0013
ã‚'rootæ¨©é™•ã•§å®Ÿè¡Œã•™ã‚Œã•°ã€•ttyUSB0ï½ž2ã•Œ/devã•«ç•¾ã‚Œã‚‹ã€‚

3.è£œè¶³æƒ…å ±

ã€€Raspbianã•¯ãƒ‡ãƒ•ã‚©ãƒ«ãƒˆã•§ã•¯3Gé€šä¿¡ã‚¢ãƒ€ãƒ—ã‚¿ã•§é€šä¿¡ã•™ã‚‹ã•Ÿã•®ã‚½ãƒ•ãƒˆã‚¦ã‚§ã‚¢ã•Œã‚¤ãƒ³ãƒˆãƒ¼ãƒ«ã••ã‚Œã•¦ã•„ã•ªã•„ã•®ã•§ã€•SDã‚«ãƒ¼ãƒ‰ã•¸ã•®OSã‚¤ãƒ¡ãƒ¼ã‚¸æ›¸ã••è¾¼ã•¿ã•®ç›´å¾Œã€•ppp/libpcapã•®ãƒ'ãƒƒã‚±ãƒ¼ã‚¸2ã•¤ã‚'åˆ¥é€"å…¥æ‰‹ã€•SDã‚«ãƒ¼ãƒ‰ã•«ã‚³ãƒ"ãƒ¼ï¼ˆWindowsã•‹ã‚‰è¦‹ã•ˆã‚‹bootãƒ'ãƒ¼ãƒ†ã‚£ãƒ§ãƒ³å†…ã•§OKï¼‰ã€•Raspbianèµ·å‹•å¾Œã•«ã‚·ãƒªã‚¢ãƒ«ã‚³ãƒ³ã‚½ãƒｰãƒ«ã•§æ‰‹ã‚‰ã•¤ãƒ³ãƒˆãƒ¼ãƒ«ã‚'è¡Œãˆã•°ã€•ã•¨ã•¯è¨-å®šã• ã•‘ã•§3Gé€šä¿¡ãƒ¢ã‚¸ãƒ¥ãƒ¼ãƒ«ã•Œã•„ã••ã•ªã‚Šã½¿ã•ˆã‚‹ã€‚
ã€€ä¸€æ™‚çš„ã•«ã•§ã„æœ‰ç·šLAN/ç„¡ç·šLANã‚'ä½¿ã•Šã•†ã•™ã‚‹ã•¨ã•„ã‚•ã•„ã‚•é•¢å€'ã•§æ™‚é–“ã„æŽ›ã•‹ã‚‹ã•®ã•§ï¼ˆå••é•¢ã€•é«˜é€Ÿå›žç·šã‚'ä½¿ã•ˆã‚‹ãƒ¡ãƒªãƒƒãƒˆ¯ã•‚ã‚‹ã•Œï¼‰ã€•ç"¨é€"æ¬¡ç¬¬ã•§ã•“ã•®ã„ã‚Šæ–¹ã•¯æŽ¨å¥¨ã€‚

4.ã•¾ã•¨ã‚•

ã€€ãƒ»å»‰ä¾¡ã•«å…¥æ‰‹å•¯ èƒ½ã•—ã•Ÿã•'ã‚Œã•°ã€•3Gã‚¢ãƒ€ãƒ—ã‚¿ã•Œã•Šã•™ã•™ã‚•
ã€€ãƒ»ã‚·ãƒ"ã‚¢ãªå¿œç-"æ€§è†½ã‚'è¦•æ±‚ã•—ã•ªã•'ã‚Œã•°ã€•3Gã‚¢ãƒ€ãƒ—ã‚¿ã•Œã„ã•£ã•±ã‚Šã•Šã•™ã•™ã‚•
ã€€ãƒ»æ¶ˆè²»é›»åŠ›ç‚„ã•«ã‚LTEã‚ˆã‚Š3Gã•®æ–¹ã•Œå°'ã•ªã•„**ã‚‰ã•—ã•„**
ã•®ã•§ã€•IoTç‚„ç"¨é€"ã•«ã•¯3Gã‚¢ãƒ€ãƒ—ã‚¿ã•Œã•ªã•Šã•™ã•™ã‚•
ã€€ãƒ»**L-02Cã•¯åœ°é›·**