



Tycho *EF* *OC*

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Warranty Repair

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Repair After Warranty Expiration

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Limitation of Liability

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EndRun Contact Information

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Hcz<" *929+795/ : 83 ;
Ucngu<" 3/ : 99/96 ; /5 : 9 : "qt" *929+795/ : 855
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Easy Installation

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Free FLASH Upgrades

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CDMA Timing-
How It Works

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nue;!Hjwjoh!pvu!efwjdf!7!up!Ufnqvt!Ij!CpumuMes
OFU5;!Mjovy!UDQ0JQ!2/1!gps!OFU5/1
JQ!Qspupdpmt;!JDNQ-!VEQ-!UDQ-!JHNQ
JQ;!spvujoh!dbdif!ibti!ubcmf!pg!623!evdlfut-!5Lczuft
UDQ;!Ibti!ubcmft!dpogjhvsfe!)ftubcmjti fe!3159!cjoe!3159*
OFU5;!Vo jy!epnbjo!tpdlfut!2/10TNQ!gps!Mjovy!OFU5/1/
nuecmpdl`pqfo
pl
SBNEJTL;!Dpnqsfsttfe!jnbhf!gpvoe!bu!cmpdl!1
nuecmpdl`sfmfbtf
pl
WGT;!Npvoufe!sppu!)fyu3!gjmftztufn*/
Gsffjoh!vovtfe!lfsofm!nfnpsz;!791!gsffe
JOJU;!wfstjpo!3/87!cppujoh
Ofud0sd/e0sd/T;!0cjo;!jt!b!ejsfdupsz
nuecmpdl`pqfo
pl
nuecmpdl`pqfo
pl
Mpbejoh!DENB
Gsj!Bvh!31!11;64;65!3115!.1/818239!tfdpoet
3115
Tfuujoh!tztufn!ujnf!vtjoh!ixdmpdl
JOJU;!Foufsjoh!svomfwfm;!4
Foufsjoh!nvujvtfs///
Buufnqujoh!up!dpogjhvsf!fui1!cz!dpoubdujoh!b!EIDQ!tfswfs///

```

Cv"vjku"rqkp".kh"{qw"fq"pq"jcxg"c"FER"ugtugt"eqpLiwtgf"qp"{qwt"pgvyqtm"vjg"wpkv"yknn"vkog/qwv"
 cpf"rtkp"vjgug"o guucigu<

Uzdipl!DENB!EIDQ!Dmjfou!xbt!vobcmf!up!gjoe!uif!EIDQ!Tfswfs"

Using netconfig to Set Up Your IP

Vjg"uetkrv"Łng"oŁudpogjh"ykm'eqpŁiwtg"vjg"VERlKR"pgv y qtm"rctc o gvgtu"hqt" {qwt" " n

Check Network Operation

Ykvj" {qwt"V{ejq"pgvyqtm"rctc o gygtu"rtqrgtn{"eqpŁiwtgf." {qw"ctg"tgc f {"vq"vguv"vjg"ugvwr"wukpi"qjoh"
htq o "c"ugtugt"qt" yqtmuvckqp"vjcv"ku"cdng"vq"ceeguu"vjg"pgvyqtm"eqppgevgf"vq"vjg"

Using SSH

```
Y jgp"guvcdnkujkpi" c"t ti"eqppgevkqp" ykvj" {qwt"V{ejq."nqi ikpi"kp" fktgevn{"cu" tqqv"ku"" rgt o kvvgf0"" Y jgp"
{qw"nqi"kp"cu" tqqv"xkc" c"t ti" uguuqkp" ykvj" vjg"V{ejq."vjku" dcpptg" yknn" dg" fkurnc{gf<
```

```
+++++
+!!!!!!!Xfmdpnf!up!Uzdip!DENB!TTI!dpotpmf!po;!!dtzt/zpvs/epnbjo
+++++
```

```
sppuAdtzt/zpvs/epnbjo t!qbttxpse;
```

```
Jgtg" {qw" oc{ "nqi"kp"cu" otqqvö" ykvj" rcuuyqtf" ögpftwpa3ö0"" Chvgt" eqttgevn{ "gppvgtkpi" vjg" rcuuyqtf" vjg"
ukip"qp" o guucig"ku"ujqyp0""Kv" kfgpvkLgu"vjg" jquv"u{uvgo"cu"V{ejq"cpf"ujqyu"vjg"uqhvycgt" rctv"pwodgt."
xgtukqp"cpf"dwknf"fcvg<
```

```
Uzdip!DENB!7121.1153.111!w!2/11!Gs j!Bvh!31!25;28;55!VUD!3115
Uzdip!DENB) sppuAdtzt; ; * . ?
```

```
Vjku"ncuv"nkgp"ku"vjg"uvcpfctf"V{ejq" EFOC"ujgmn"rtqo rv0""Vjg"V{ejq" wugu"vjg" c bti"ujgmn." yjkej"ku"
vjg"Nkpwz"uvcpfctf." hwnn/hgcwvtgf"ujgmn0"" Chvgt" eqpLi wtkpi" vjg"wpkv." {qw"ujqwnf"ejcpig"vjg" rcuuyqtfu"
wukpi"vjg" dtztqbttxe"eqo o cpf"kuuwgf"htqo" vjg"ujgmn"rtqo rv0
```

```
Kuuwkpi !fyju" yknn"enqug"vjg!t ti" uguuqkp0
```

Using HTTP

```
[qw" oc{ "o qpkvqt"vjg"uvcvwu"qh"vjg"V{ejq"xkc"vjg" J VVR"kpvgthceg0""Hqt"ugewtkv{ "tgcqupu." {qw" oc{ "pqv"
ejcpig"cp{ "ugwkpi"u"xkc"vjg" J VVR"kpvgthceg0""Ugg" E jcrvgt"7"/" J VVR"kpvgthceg" hqt" o qtg" kphqt o cvkqp0
```

SSH, Telnet, SNMP and HTTP are all enabled with default passwords. To ensure security, change the passwords or disable the protocols.

To change the passwords for SSH, Telnet and HTTP use the `houqqbttxe` command. To change the passwords/community strings for SNMP see

To disable Telnet use the `jofuedpogjh` command. To disable SSH, SNMP and HTTP see

Connecting Instruments
to the Tycho

Available User Commands

ceeguueqpŁi	Kpvgtccevkxg"ujgmn"uetkrv"jcv"i wkfgu"vjg"wugt"kp"eqpŁi wtkpi" ufmofu. "tti"cpf"tonqe"ceeguu"vq"vjg"V{ejq"vjcv"ku"nk o kvgf"vq" urgekŁe"jqvu0"Vjg"tguwnvki"lgveljqvu0cnnqy"cpf" lgveljqvu0fgpf"Łngu"ctg"ucxgf"vq"vjg"pqp/xqncvknq"HNCUJ"fkum0" Hcevqt{"fghcwnv"eqpŁi wtcvkqp"cmqyu"ceeguu"d{"cnn"jqvu0
ef o cecnfgnc{	Rtkpvu"vjg"ecnkdtcvkqp"fgnc{"vq"vjg"eqpuqng0
ef o cejcppgnugv	Rtkpvu"vjg"ewttgpn"EF OC"ejcppgnugv"dgkpi" wugf0"Kv"ecp"dg" qpg"qh"Pqtvj"C o gtkecp"Egnwnct."Uqwvj"Mtqgcp"Egnwnct."Pqtvj" C o gtkecp"REU."kpfkcp"Egnwnct"qt"Lrcpgug"Egnwnct0
ef o cngcreqpŁi	I wkfgu"vjg"wugt"kp"eqpŁi wtkpi"vjg"yc{"kp"y jkej"WVE"ngcr"uge/ qpfu"ctg"jcpfngf<"gkvjgt"cwvq o cvkecnn{"xk"EF OC"dcugucvkqp" vtcpu o kuukpu"qt"d{"wugt/gpvgtgf"ewttgpn"cpf"hwvwtg"ngcr"ugeqpf" rctc o gvgtu0
ef o cngcr o qfg	Rtkpvu"vjg"ewttgpn"EF OC"ngcr"ugeqpf" o qfg"qh"qrgtcvkqp."gkvjgt" cwvq o cvke"qt"wugt/gpvgtgf0"Kh"wugt/gpvgtgf."rtkpvu"vjg"ewttgpn" cpf"hwvwtg"ngcr"ugeqpf"xcnwgu0
ef o cuvcv	Rtkpvu"vjg"EF OC"Uwdu{uvg o "uvcvwu"kphqt o cvkqp"vq"vjg"eqpuqng0
ef o cxgtukqp	Rtkpvu"vjg"EF OC"Łt o yctg"cpf"HR IC"xgtukqp"kphqt o cvkqp"vq" vjg"eqpuqng0
erwqrvu	Tgwtpu"vjg"ewttgpn"ugvki u"htq"cp{"kpuvcnngf."wugt/ugngevcnng" qwwrwwu"htq o "vjg"ERW"Oqfwng0"Vjgug"ctg"3RRU."CO"Eqfg"cpf" vjg"qrvkqpcn"Rtqi tc o o cndg"VVN"Qwwrvw0
erwqrvueqpŁi	Cp"kpvgtccevkxg"uetkrv"jcv"cmqyu"vjg"wugt"vq" o qfkh{"vjg"ugvki u" htq"vjg"ERW"Oqfwng"qwwrwwu"nkuvgf"cdqxxg0
erwugtk o g	Rtkpvu"vjg"ewttgpn"ugvki u"htq"vjg"qrvkqpcn"Ugtken"Vk o g"Qwwrvw0
erwugtk o geqpŁi	Cp"kpvgtccevkxg"uetkrv"jcv"cmqyu"vjg"wugt"vq" o qfkh{"vjg"ugvki u" htq"vjg"qrvkqpcn"Ugtken"Vk o g"Qwwrvw0

Detailed Command Descriptions

accessconfig

```
Vjku"eq o o cpf"uvctvu"cp"kpvgtcvkvxg"ujgnn"uetkrv"vjcv"yknn"cnmqy"vjg"tqqv"wgut"vq"eqpLi wtg"nk o kvcvkqp"qh"
ufmofu."tti"cpf"tonq"ceeguu"vq"vjg"V{ejq0""D{"fghcwnv."vjg"wpkv"ku"eqpLi wtg"vq"cnmqy"ceeguu"d{"cnn"
wgutu0""Kh" {qw"pggf"vq"nk o kv"ufmofu."tti"qt"tonq"ceeguu."g0i0"htq"ugewtkv{"tgcuppu." {qw"o wuv"twp"vjku"
uetkrv"cu"tqqv"htq o "gkvjgt"vjg"TU/454"ugtkcn"klQ"rqtv"qt"htq o "c!ufmofu"qt!tti"uguukqp0
```

```
Vjku"uetkrv" o qfkLgu"vjgug"Lngu<"lgveljqvu0cnmqy"cpf"lgveljqvu0fgp{0""Vjgug"ctg"pqp/xqncvkngn{"uvqtgf"
kp"vjg"HNCUJ"fkum"ldqqvlgve" fktgevt{0"" [qw"o wuv"tgdaqv"vjg"V{ejq"chvgt"twppki"vjku"uetkrv"htq"vjg"
ejcpi gu"vq"vcmg"ghhgev0
```

```
" Ugv<" " " " bddfttdpogjh
" V{ejq"tgurqpug<" " " kpvgtcvkvxg"ujgnn"uetkrv"ku"uvctvgf0
```

cdmacaldelay

```
Vjku"eq o o cpf"fkurnc{u"vjg"ewttgpn"ecnkdtcvkqp"fgnc{"ugvvpki0""Vjg"cnmqy"cdng"ecnkdtcvkqp"fgnc{"tcpig"ku"
-722222"vq"/722222"pcpqugeqpfu0
```

```
" Swgt{<" " " " denbdbmfmbz
" V{ejq"tgurqpug<" " " -2"pcpqugeqpfu
```

cdmachannelset

```
Vjku"eq o o cpf"fkurnc{u"vjg"EF0C"ejcppgnugv"ewttgpn{"dgkpi"wguf"d{"vjg"EF0C"Uwdu{uvgo0""kv"ecp"
dg"ppg"qh<"Pqtvj"C o gtkecp"Egnwnct."Uqwwj"Mqtgcp"Egnwnct."Pqtvj"C o gtkecp"REU."kpfkcp"Egnwnct"qt"
htq"egtvcv"wpkvu."Lrcpgug"Egnwnct0
```

```
" Swgt{<" " " " denbdiboofmtfu
" V{ejq"tgurqpug<" " " Diboofmtfu!jt!Opsui!Bnfsjdbo!QDT
```

cdmaleapconfig

```
Ngcr"ugeqpfu"chhgev"PVR"WVE"cpf"Nqecn"Vko g"pqv"IRU"Vko g+0""Ngcr"ugeqpf"kpugtkqpu"qewt"cdqvw"
qpeg"gxgt{"vyq" {gctu0""Vjku"eq o o cpf"uvctvu"cp"kpvgtcvkvxg"ujgnn"uetkrv"vjcv"yknn"i wkv"vjg"tqqv"wgut"kp"
eqpLi wtkpi"vjg"yc{"vjcv"WVE"ngcr"ugeqpfu"ctg"jcpfngf0""
```

```
Vjgtg"ctg"vyq"fkhhtgpn"o qfgu"htq"jcpfnkpi"ngcr"ugeqpf"kpugtkqpu<cwvq o cvke"cpf"wgut/gpvgtf0""Vjg"
V{ejq"ku"ujkr rgf"htq o "vjg"hcvtq{"kp"wgut/gpvgtf"ngcr"ugeqpf" o qfg"ykvj"vjg"ewttgpn"cpf"hwwtg"ngcr"
ugeqpf"xcnwgugv"cr rtrtkcvgn{0"" [qw"yknn"pggf"vq"ejcpi g"vjgug"xcnwgug"vjg"pgzv"vko g"c"ngcr"ugeqpf"ku"
rgpfpki0""Vjg"kpvgtcvkvxg"uetkrv"ku"xgt{"fgvckngf"kp"gzrnckpki"jyq"vjgug"xcnwgug"ctg"qdckpgf"cpf"wguf0""
Vjgtg"ku"cnug" o qtg"kphqt o cvkqp"kp"Crrgpfkz"G"/Ngcr"Ugeqpfu0""
```

```
" Swgt{<" " " " denbmfbdpogjh
" V{ejq"tgurqpug<" " " kpvgtcvkvxg"ujgnn"uetkrv"ku"uvctvgf0
```

cdmaleapmode

Vjku"eq o o cpf"fkurnc{u"vjg"EFOC"ngcr" o qfg"qh"qrgtcvkqp"ewttgpn{"eqpLiwtgf0""Vjgtg"ctg"vyq"
o qfgu<"cwwq o cvke"cpf"wugt/gpvgtgf0""kh"vjg" o qfg"ku"wugt/gpvgtgf."vjgp"vjg"xcnwgu"qh"vjg"eqpLiwtgf"
ewttgpn"cpf"hwwtg"ngcr"ugeqp fu"ctg"cnuq"fkurnc{gf0

" Swgt{<" " " " " **denbmfbqnpf**
" V{ejq"tgurqpug<" "
! ! **DENB!Mfbq!Tfdpoe!Npof!jt!VTFS;!Dvssfou!MT!>!24-!Gvuvsf!MT!>!24**

cdmastat

Vjku"eq o o cpf"cnnyu"vjg"wugt"vq"swgt{"vjg"uvcwuw"qh"vjg"EFOC"Uwdu{uvgo0""Fwtkpi"pqt o cn"qrgtc/
vkqp."c"Nkpwz"fcg o qp"*U [UVKOGF+"rqnu"vjg"EFOC"Uwdu{uvgo"gxgt{"gkijv"ugeqp fu0""Vjg"tguwnvu"
qh"vjku"rqnm"ctg"wugf"vq"uwgt"vjg"u{uvgo"enqem"cpf"ctg"ucxgf"vq"cnqi"Ł

```

" " 6*Rtk oct{"C+."7*Rtk oct{"D+."8*Ugeqpfct{"C+."9*Ugeqpfct{"D+
" " Hqt"Pqtvj"C o gtkecp"REU"vjgug"ctg<
" " : "22"C+." ; "23"C+."32*24"C+."33*25"C+."34*26"C+."35*27"C+."36*28"C+."37*29"C+."
" " 38*2:"C+."39*2;"C+."3:"*32"C+."
" " 3;"*22" F+."42*23" F+."43*24" F+."
" " 44*22"D+."45*23"D+."46*24"D+."47*25"D+."48*26"D+."49*27"D+."4:"*28"D+."4;"*29"D+."
" " 52*2:"D+."53*2;"D+."54*32"D+
" " 55*22"G+."56*23"G+."57*24"G+
" " 58*22"H+."59*23"H+."5:"*24"H+
" " 5;"*22"E+."62*23"E+."63*24"E+."64*25"E+."65*26"E+."66*27"E+."
" " 67*28"E+."68*29"E+."69*2:"E+."6:"*2;"E+."6;"*32"E+0
" " Hqt"Lrcrpgug"Egnwvct"vjgug"ctg<
" " 72*Rtk oct{"C+."73*Ugeqpfct{"C+
" " Hqt"Kp fkc"Egnwvct"vjgug"ctg<
" " 74*Utk"Ncpmc"65+."75*Utk"Ncpmc"368+."
" " 76*Kp fkc"3:7+."77*Kp fkc"448+."78*Kp fkc"489+."79*Kp fkc"52:+"
" " 7:"*Kp fkc"58;+."7;"*Kp fkc"632+."82*Kp fkc"673+."83*Kp fkc"6;4+0

RPQ" ku"vjg"dcug"uvcvkqp"rugwfpqkug"qhugv."2"vq"733"kp"wpkvu"qh"86"rugwfpqkug"eqfg"ejkru0

CIE" ku"vjg"cwvq o cvke"i ckp"eqpvtqn"FACE"d{vg."2"vq"477"ykvj"nctigt"pw o dgtu"ko rn{kpi"jki jgt"
" " TH"i ckp0"V{ rkecn"tcpig"ku"372"vq"4420

XEFCE" ku"vjg"VEZQ"xqncig"eqpvtqn"FACE"yqtf."2"vq"326:797"ykvj"nctigt"pw o dgtu"ko rn{kpi
" " jki jgt"VEZQ"htgswgpe{0"V{ rkecn"tcpig"ku"542222"vq"8622220

UP0T" ku"vjg"ecttkt"ukipcn/vq/pqkug"tcvkq."2022"vq"; ;0;."o gcuwtgf"kp"vjg"EFOC"u{pe"ejcppgn
" " u{ o dqn"tcvg"dcpf ykfvi0"V{ rkecn"tcpig"ku"407"vq"33020""

HGTT" ku"vjg"EFOC"u{pe"ejcppgn"htc o g"gttqt"tcvg."2022"vq"30222."ykvj"c"jki jgt"pw o dgt"
" " ko rn{kpi" o qtg"E{enkecn"Tgfwfcp{ "Ejgem"ETE+"hcknwtgu"y jgp"rtqeguakpi"vjg"u{pe
" " ejcppgn"o guoci g"htc o gu0"Jki jgt"pw o dgtu"y knn"eqttgncvg"ykvj"nqygt"ukipcn/vq/pqkug
" " tcvkqu0

HNVU" ku"vjg"hcwnv"uvcvwu."y jkej"fkurnc{u"vjg"ewttgpn"uw o oct{"uvcvwu"qh"vjg"EFOC""
" " Uwdu{uvgo0"Vjg"uw o oct{"uvcvwu"ku"eqpvckpgf"kp"ukzvvggp"dkvu"y jkej"ctg"fkurnc{gf"kp"hqwt
" " jgzcfgek o cn"ejctcevgtu0"Cuugtvkqp"qh"cp{"qh"vjgug"dkvu"y knn"cnug"dg"kp fkecvgf"d{"
" " knnw o kpcvkqp"qh"vjg"tgf"NGF0"Gcej"dkv"qh"gej"ejctcevgt"kp fkecvgu"vjg"uvcvwu"qh"c"
" " uwdu{uvgo"eq o rppgpv<

```

FCE"Eqpvtqn"Qxgt/Tcpi g< Vjku"dkv"kpfkcevgu"vjcv"vjg"gngevtqpk"htgswgpe{"eqpvtqn" FCE"hqt"vjg" quekncvqt"jcu"tgcejgf"gvjgt"vjg"jki j"*77222+"qt"nqy"*32222+"nk okv" y jkng"nqemgf"vq"vjg"EFOC"uki / pcn0"Wpnguu"vjg"wpkv"ku"dgkpi"uwdlgevfg"vq"qww/qh/urgekŁecvkqp"gpixtqp o gpvcn"eqpfkvpku"vjku"y qwnf" kpfkcevg"vjcv"vjg"quekncvqt"htgswgpe{"jcu"ftkhvgf"pgct"vq"vjg"gpf"qh"nkhg"tgi kqp0"Vjku"uj qwnf"pqt o cnn {"qeevt"chvgt"cdqww"vgp"}{gctu"qh"qrgtcvkqp0"Vjg"wpkv" y knn"eqpvkpwg"vq"hwpevkqp"wpkn"vjg"quekncvqt" htgswgpe{"Łpcnn{"tgcejgu"qpg"qh"vjg"cevwn" FCE"gpfrqkpvu0"Vjg"wpkv"uj qwnf"dg"tgwtpgf"vq"vjg"hevqt {" hqt"quekncvqt"tgrnceg o gpv"cv"vjg"ewuvq o gt0u"eqpxgpkgegl

Pq"Uki pcn"Vko g/Qwv< Vjku"dkv"kpfkcevgu"vjcv"vjg"wpkv"jcu"pqv"dgpp"cdng"vq"ceswktg" c"EFOC" uki pcn"hqt"qpg"j qwt" y jkng"vjg"Vko g"Hki wtg"qh"Ogtkv"jcu"dgpp"gswn"vq"vjg"VHQO"Hcwnv"Ngxgn"*ugg"vjg" t f u u g p n g m u m w m"eq o o c p f + 0 " V j k u " e q w n f " d g " f w g " v q " c " x c t k v { " q h " t g c u q p u 0 " " K h " v j g t g " c t g " p q " q v j g t " h c w n v u " v j c v " e q w n f " g z r n c k p " v j g " k p c d k n k v { " v q " t g e g k x g " c " u k i p c n . " v j g p " v j g t g " e q w n f " d g " c p " q t " c p v g p p c " h c k n w t g 0 " " K h " v j g " e q p f k v k p p " r g t u k u v u " k p f g Ł p k v g n { . " c p f " c " r t q d n g o " y k v j " v j g " c p v g p p c " k u " p q v " g x k f g p v . " v j g " w p k v " o c { " p g g f " v q " d g " t g w t p g f " v q " v j g " h e v q t { " h q t " t g r c k t 0

HRIC"EqpLi"Hcwnv< Vjku"dkv"kpfkcevgu"vjcv"vjg" o ketqrtqeguut" ycu"wpcdng"vq"eqpŁi wtg"vjg" HRIC0"Vjku"y qwnf"dg" c"hcvcn"hcwnv"cpf"vjg"wpkv"uj qwnf"dg"tgwtpgf"vq"vjg"hevqt {"hqt"tgrckt0

HNCUJ"Ytkvg"Hcwnv< Vjku"dkv"kpfkcevgu"vjcv"vjg" o ketqrtqeguut" ycu"wpcdng"vq"xgkth {"c" y tkvg" vq"vjg"HNCUJ"pqp/xqncvkg"rctc o gvgt"uvqtcig"ctgc0"Vjku"uj qwnf"pqv"gxg"qeevt"wpfgt"pqt o c n " q r g t c / v k q p 0 " V j k u " h c w n v " y q w n f " e c w u g " g t t c v k e " q r g t c v k q p " c v " v j g " p g z v " r q y g t " e { e n k p i " u k p e g " k o r q t c v p " r c t c o g v g t u " e q w n f " d g " e q t t w r v 0 " V j g " w p k v " u j q w n f " d g " t g w t p g f " v q " v j g " h e v q t { " h q t " t g r c k t 0

Nqecn"Quekncvqt"Hcwnv< Vjku"dkv"kpfkcevgu"vjcv"vjg"tgegkxg"Nqecn"Quekncvqt"Rjcug"Nqemgf"Nqqr" *RNN+u{"pvjguk|gt"ku"gvjgt"wpnqemgf"qt"jcu"hcngf0"Vjku"eqpfkvpku"uj qwnf"pqv"pqt o c n n {"qeevt"wpnguu" vjg"wpkv"ku"uwdlgevfg"vq"qww/qh/urgekŁecvkqp"gpixtqp o gpvcn"eqpfkvpku0"Qvjgt ykug."vjku"y qwnf"dg" c" hcvcn"hcwnv"cpf"vjg"wpkv"uj qwnf"dg"tgwtpgf"vq"vjg"hevqt {"hqt"tgrckt"*3/:99/96;/5:9:+0

Vko g"Kprwv"Hcwnv< " Vjku"dkv"kpfkcevgu"vjcv"vjg" o ketqrtqeguut"tgegkxgf"cp"gttqpgqvu"vko g" kprwv"htq o "vjg"EFOC"Uwdu{uvgo 0" Fq"PQV"fq" c"rqygt"e{eng"kp"cp"cvvg o rv"vq"engct"vjku"hcwnv0"Kh"vjg" eqpfkvpku"rgtukuvu"rngcug"tgrqtv"kv"vq"vjg"hevqt {0

Pq"Rqmkpi"Gxgpyu< " Vjku"dkv"kpfkcevgu"vjcv"vjg"EFOC"Uwdu{uvgo "ku"pqv"tgegkxkpi"rqmkpi" t g s w g u v u " h t q o " v j g " N k p w z " U w d u { u v g o 0 " V j k u " e q w n f " d g " f w g " v q " c " j c t f y c t g " q t " u q h v y c t g " h c k n w t g 0 " " K h " v j g " e q p / f k v k p p " r g t u k u v u " c h v g t " e { e n k p i " v j g " r q y g t " v q " v j g " w p k v . " v j k u " k u " c " h c v c n " h c w n v " c p f " v j g " w p k v " u j q w n f " d g " t g w t p g f " v q " v j g " h e v q t { " h q t " t g r c k t 0

Vjg"gzco rng"tgurqpg"kpfkcevgu"vjcv"vjg"jcu"dgpp" c"rgtkf" ykvjqww"vtcemkpi" c"EFOC"uki pcn"vjcv" g z e g g f g f " v j g " v k o g / q w w " r g t k q f . " v j c v " v j g t g " y c u " c " H N C U J " Y t k v g " H c w n v " c p f " v j c v " v j g t g " k u " c " N q e c n " Q u e k n c v q t " R N N " h c w n v 0

" Swgt{< " " " " denbtubu
" V{ejq"tgurqpg<
! MPDLFE!UGPN!>!7!3112!1:3!15;59;67/458:27843!24!9!2!243!39716!9/7!1/111!112B


```
eqpŁiwtg{qwt'wpkv'hqt'nqecn/ocpwn'qrgtcvkqp'cpf'ugv'wr'vjg'nqecn'qhhugv'cpf'vjg'"FUV"uvctv'cpf'uvqr"
vkog'u'wukpi"eu{uvkogoqfgeqpi.i}
```

```
" Swgt{<" " " dtztujfnpef
" V{ejq'tgurqpug<" " Ujnf!Npef!>!MPDBM`NBOVBM
! ! ! ! ! Mpdbm!Ujnf!Pggtfu!gspn!VUD!>! .27!)ibmg!ipvst*
! ! ! ! ! ETU!Tubsu!Npoui!>!Bqs!Tvoebz!>!2tu!!Ipvs!>!13
! ! ! ! ! ETU!Tupq!!Npoui!>!Pdu!Tvoebz!>!Mbtu!Ipvs!>!13
```

csystemmodeconfig

```
Vjku'eqo o cpf'uvctvu'cp'kpvgtcevkxg'ujgn'uetkrv'vjcv'yknn'cnnqy'vjg'wugt'vq'eqpŁiwtg'vjg'vkog'o qfg'qh"
vjg'vkog'eqfg'qwwrww'qt'qr'vkqpcn'Ugtkcn'Vkog'Qwwrww'Qrvkqpu'ctg"IRU."WVE."Nqecn/Cwwq'cpf'Nq/
ecn/Ocpwn'Vjgug'ugv'kpi'u'jcxg'pq'ghhgev'qp'vjg'qrgtcvkqp'qh'vjg'wpfgtn{kpi'Nkp wz'qrgtcvkpi'u'uvgo"
vkog'Kv'CNyc[U'qrgtcv'kp'WVE}
```

```
D{"fghcwnv.'vjg'wpkv'ku'eqpŁiwtg'vq'qrgtcvg'kp'WVE'vkog'o qfg'Kh{"qw'pggf'vq'o qfk{"vjku'ugv'kpi."
{qw'o wuv'twp'vjku'uetkrv'cu'tqqv'Ugv'kpi'u'ocfg'wukpi'vjku'eqo o cpf'ctg'pqp/xqncv'kng}
```

```
" Ugv<" " " dtztujfnpefdpogjh
" V{ejq'tgurqpug<" " kpvgtcevkxg'ujgn'uetkrv'ku'uvctvgf}
```

csysversion

```
Vjku'eqo o cpf'fkurnc{u'vjg'Łto yctg'xgtukqp'cpf'dwknf'fcvg'qh'vjg'Nkp wz'Uwdu{uvgo"*tqqv'Łng'u{u/
vgo+}
```

```
" Swgt{<" " " dtztwfstjpo
" V{ejq'tgurqpug<"
" " V{ejq"EFOC"8232/2264/222"x"3022"Htk"Cwi"42"44<5:<43"WVE"4226
```

eraserootfs_1

```
Vjku'eqo o cpf'gtcugu'vjg'WRITCFG'tqqv'Łng'u{uvgo"HNCUJ"rctvkvkqp'kp'rtgrctcvkqp'hqt'rgthqtokpi"
c'Nkp wz'Uwdu{uvgo'Łto yctg'writc'fg'Ugg"Crngp'fkz'D"/"Writc'f'kpi'vjg'Hkt o yctg'hqt'o qtg'kphqt/
ocvkqp}
```

```
" Ugv<" " " fsbtfspugt`2
" V{ejq'tgurqpug<" " Gtcug'rtqigtuu'cu'rtgepv'ku'ujqyp}
```

help

```
Vjku'eqo o cpf'fkurnc{u'c'nkuv'qh'vjg'V{ejq'eqo o cpf'u'*pqv'Nkp wz'eqo o cpf'u+}'Vq'igv'jgnr'qp'c'rc/
vkewnc't'eqo o cpf'f'qw'yqwnf'v'rg'ifmq."hqqnqygf'd{"vjg'eqo o cpf}
```

```
" Swgt{<" " " ifmq
" V{ejq'tgurqpug<" " V{ejq'eqo o cpf'u'ctg'fkurnc{gf}

" Swgt{<" " " ifmq!denbtubu
" V{ejq'tgurqpug<" " kphqtocvkqp'urgekŁe'vq'vjg'denbtubu'eqo o cpf'ku'fkurnc{gf}
```

inetdconfig

```
Vjku"eqo o cpf"uvctvu"cp"kpvgtcvkg"ujgmn"uetkrv"vjcv"yknn"cnny"vjg"wugt"vq"eqpL i wtg"vjg"nkuv"qh"rtqvqeqn"
ugtxgtu"y jkej"ctg"uvctvgf"d{"vjg"jofue"ugtxgt"fcg o qp"twppkpi"kp"vjg"V{ejq0"Vjtggr"rtqvqeqn"ugtx/
gtu"o c{"dg"eqpL i wtgfc"VKOG."FC[ VKOG."cpf"VGNDPGV0"D{"fghcwnv."vjg"wpkv"ku"eqpL i wtgfvq"uvctv"
cnn"qh"vjgug"rtqvqeqn"ugtxgtu0"Kh" {qw"pggf"vq"fkucdng"uvctv/wr"qh"uq o g"qt"cmn"qh"vjgug."g0i0"ht"ugewtkv{"
tgcuppu." {qw"o wuv"twp"vjku"uetkrv"cu"tqqv"htq o "gkvjgt"vjg" TU/454"ugtken"KlQ" rqtv"qt"htq o "c"ufmofu"qt"
tti"uguukqp0
```

```
Vjku"uetkrv" o qfkLgu"vjg"lgvelkpgvf0eqph"Lng." y jkej"ku"pqp/xqncvknngn{"uvqtgf"kp"vjg"HNCUJ"fkum"ldqqvl
gve" fktgevt{0" [qw"o wuv"tgdaqv"vjg"V{ejq"chvgt"twppkpi"vjku"uetkrv"htq"vjg"ejcpi"gu"vq"vcmg"ghhgev0
```

```
" Ugv<" " " " jofuedpogjh
" V{ejq"tgurqpug<" " " kpvgtcvkg"ujgmn"uetkrv"ku"uvctvgf0
```

netconfig

```
Vjku"eqo o cpf"uvctvu"cp"kpvgtcvkg"ujgmn"uetkrv"vjcv"yknn"cnny"vjg"wugt"vq"eqpL i wtg"vjg"KR"pgvyqtm"
uwdu{uvgo"qh"vjg"V{ejq0"D{"fghcwnv."vjg"wpkv"ku"eqpL i wtgfvq"eqpL i wtg"kvgnh"wukpi"vjg"F{p o ke"Jquv"
EqpL i wtcvkqp"Rtqvqeqn"*F JER+0"Kh" {qw"pggf"vq"ugv"wr"uvcke"KR"eqpL i wtcvkqp." {qw"o wuv"twp"vjku"uetkrv"
cu"tqqv"htq o "vjg" TU/454"ugtken"KlQ" rqtv"fwtkpi"vjg"kpucnncvkqp"rtqegu00" Tghgt"vq"Ejcrvgt"4"/"Wukpi"
pgveqphki"vq"Ugv"Wr"[qwt"KR"htq"fgvcknu"qp"vjg"wug"qh"vjg"eqo o cpf0
```

```
Vjku"uetkrv"etgcvgu"qt" o qfkLgu"vjgug"Lngu<"lgvelJQUVPCOG!"lgveljqvu."lgvelpgvyqtmu."lgveltguqnx0eqph"
cpf"lgveltel0fltelkpgv30"Cnn"qh"vjgug"ctg"pqp/xqncvknngn{"uvqtgf"kp"vjg"HNCUJ"fkum"ldqqvlgve
```


upgradkernel

Vjku"uetkrv"cmqyu"vjg"wugt"vq"ejcpig"vjg"Nkpwz"mgtpgn"Łt o yctg0""Kv"tgswtgu"qpg"ctiwo gpv<"vjg"rcvj"
 vq"vjg"Łng"vq"dg"wrnqcfgf"vq"vjg"V{ejq0""Ejcpikpi"vjg"Nkpwz"mgtpgn"Łt o yctg"yknn"gpcdng"KRx8"qrgtc/
 vkqp"cpf"ujqwnf"qpn{"dg"fqpq"kh" {qw"jcxg"c"tgswtgo gpv"hqt"KRx80""Ugg"**Crrgpfkz**"I"/"KRx8"**Kphqt o c/**
vkqp"cpf"**Rgthqt o kpi**"vjg"Nkpwz"**Mgtpgn**"**Writcfg**"kp"**Crrgpfkz**"D"/"Writcfkpi"vjg"**Hkt o yctg**"hqt"oqtg"
 kphqt o cvkqp0

" Ugv" " " " **vqhsbef1fsofm!0unq0ofx1fsofmjnbhf**
 " V{ejq"tguqpug<" " " Kpvgtcevkxg"ujgmn"uetkrv"ku"uvctvgf0"

Re 0 0 spin 0 M

" >UQJ@FFF<J J<OO<UUS>ET@>NH@

>UQJ@" ku"vjg"CUEKK"Uvctv/qh/J gcfgt"ejctcevg"2z23+
 FFF" ku"vjg"fc{/qh/{gct
 <" " ku"vjg"eqqp"ejctcevg"2z5C+
 J J" FF? ku"vjg"jq@t"qh"vjg"fc{
 OO" ku"vjg"okpwwg"qh"vjg"jqwt
 UU" ku"vjg"ugeqpf"qh"vjg"okpwwg
 S " " ku"vjg"vko"og"swcnkv{"kpfkecvqt"cpf"oc{"dg"gvjgt<
 " " >urceg@" CUEKK"urceg"ejctcevg"2z42+"y jkej"kp fkecvgu"nqemgf
 " " A" " CUEKK"swgvkqp"octm"2z5H+"y jkej"kp fkecvgu"
 " " " " v " k| t

OPTIONAL REAR-PANEL OUTPUTS

```
>ET@" ku"vjg"CUEKK"ecttkcig"tgwtp"ejctcevt"*2z2F+0"
" " Vjg"Łtuv">ET@"ku"vjg"qp/vk o g"ejctcevt0
>NH@" ku"vjg"CUEKK"npg"hggt"ejctcevt"*2z2C+0
```

```
>ET@>NH@S`Y Y Y` F F O O [ [ ` J J<O O<U U>ET@>NH@
```

```
S " " ku"vjg"vk o g"swcnv{"kpfkecvqt"cpf" o c{"dg"gvjgt<
" " >urceg@"CUEKK"urceg"ejctcevt"*2z42+" y jkej"kpfkcevgu"nqemgf0
" " A"CUEKK"swgukqp" o ctm"*2z5H+" y jkej"kpfkcevgu"vjg"wpu{"pej tqpk | gf"eqpfkvkqp0
" " Vjku"ku"vjg"ōqp/vk o gö"ejctcevt0
`" " ku"vjg"urceg"ejctcevt"*2z42+0
Y Y Y" ku"vjg"fc{/qh/yggm"*OQP."VWG."YGF."VJW."HTK."UCV
FF" ku"vjg"fc{/qh/oqpvj"*3/53+
O O O" ku"vjg"oqpj"*LCP."HGD."OCT."CRT."OC[."LWP."LWN."CWI."UGR."QEV."PQX."FGE+
[ [ " ku"vjg"vyq/fkikv"{gct
<" " ku"vjg"eqnqp"ejctcevt"*2z5C+
J J" ku"vjg"jqwt/qh/vjg/fc{"*22/45+
O O" ku"vjg"okpwwg/qh/vjg/jqwt"*22/7;+
U U" ku"vjg"ugeqpf/qh/vjg/okpwwg"*22/82+
>ET@" ku"vjg"CUEKK"ecttkcig"tgwtp"ejctcevt"*2z2F+0"
" " Vjg"Łtuv">ET@"ku"vjg"qp/vk o g"ejctcevt0
>NH@" ku"vjg"CUEKK"npg"hggt"ejctcevt"*2z2C+
```

```
>ET@>NH@S`` [ [ [ F F F` J J<O O<U U` F - \ \>ET@>NH@
```

```
S " " ku"vjg"vk o g"swcnv{"kpfkecvqt"cpf" o c{"dg"gvjgt<
" " >urceg@"CUEKK"urceg"ejctcevt"*2z42+" y jkej"kpfkcevgu"nqemgf0
" " A"CUEKK"swgukqp" o ctm"*2z5H+" y jkej"kpfkcevgu"vjg"wpu{"pej tqpk | gf"eqpfkvkqp0
" " Vjku"ku"vjg"ōqp/vk o gö"ejctcevt0
`" " ku"vjg"urceg"ejctcevt"*2z42+0
[ [ [ " ku"vjg"hqwt/fkikv"{gct
F F F" ku"vjg"fc{/qh/{gct"*223/588+
<" " ku"vjg"eqnqp"ejctcevt"*2z5C+
J J" ku"vjg"jqwt/qh/vjg/fc{"*22/45+
O O" ku"vjg"okpwwg/qh/vjg/jqwt"*22/7;+
U U" ku"vjg"ugeqpf/qh/vjg/okpwwg"*22/82+
f" " ku"vjg"FUUV"kpfkcevt"*U.K.F.Q+0
- \ \ " -"qt"/"vk o g" | qpg"qhugv"tgncvkg"vq"WVE"*22/34+
>ET@" ku"vjg"CUEKK"ecttkcig"tgwtp"ejctcevt"*2z2F+0"
" " Vjg"Łtuv">ET@"ku"vjg"qp/vk o g"ejctcevt0
>NH@" ku"vjg"CUEKK"npg"hggt"ejctcevt"*2z2C+0
```

NMEA Format

```
Vjg"Pcvkqpcn"Octkpg"Gngevtqpkcu"Cuuqekcvkqp"*P OGC+"jcu"fgxgnqrgf" c"urgekŁecvkqp"vjcv"fgŁpgu"vjg"
kpvgtthceg"dgy y ggp"xctkqwu"rkgegu"qh" o ctkpg"gngevtqpk"gs wkr o gpv0"Vjku"uvcpcftf"fgŁpgu"ōugpvpgpegu0"
vjcv"eqpvckp"IRU"rqukvkqp."pcxki cvkqp."vk o g."cpf"qvjgt"kpht o cvkqp0"Ugvpvgegu"vjcv"jcxg"dgpp"cf f g f"
vq"vjg"V{ejq"rtqfwev"npg"ctg" I I C."INN."IUC."TOE."XVI"cpf" \ FC0" Jqy gxt."rqukvkqp"cpf"pcxk/
```


Digital Time Code Formats

Kh{qw"jcxg"ugngevgf"vkog"eqfg"cu"vjg"qwrwv"qp"vjg" Fki kvcn" Dwhhgt" Oqfwng" vjgp"kvu" hqtocv" yknn" dg"vjg" ucog" hqtocv" cu"vjcv"qp"vjg"uvpcfctf"ERW" Oqfwng"CO"Eqfg"eqppgevqt0"Vjku" hqtocv"ecp"dg"ejcpigf" xkc"eqpuqng"eqo"ocpf" **dqvpqutdpogjh**"*ugg"Ejcrvgt"5+0

Direct Digital Synthesizer (DDS)

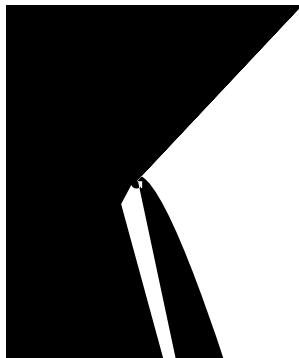
Cp"cf fkvkqpcn"wr itcfcg"vq"vjg"Rtqitc o ocdng" Fki kvcn" Dwhhgt" Oqfwng" rtqxkfgu"ceeguu"vq"vjg"FFU"vjcv"ku" tgukfgpv"qp"vjg"V{ejq"ERW" o qfwng0"Rtqitc o ocdng"u{pvjguk|gf"rwnug"tcvgu"htqo"3"RRU"vq"32"ORRU" kp"3"RRU"uvgru"ctg"cxckncdng."kpenwfkpi"30766"ORRU"qt"4026:"ORRU0"Vjg"rwnug"tcvg"ku"rjcug"nqemgf"vq" vjg"u{uvgo"quekncvqt0"Jqyngxgt."vjg"FFU"qwrwv"ku"pqv"cnk"ipgf"ykvj"u{uvgo"vkog0"

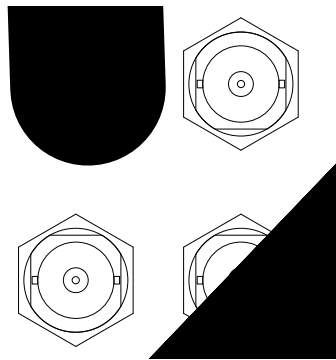
Kh{qwt"V{ejq"jcu"vjku"qrwkqp"cxckncdng"vjgp"kv"yknn"ujqy"wr"cu"0U [PVJ 0"kp"vjg"nkuv"qh"cxckncdng"ugnge/ vkqpu" hqt"vjg"Rtqitc o ocdng" Fki kvcn" Dwhhgt" qwrwvu0"Vjg"cevwn"u{pvjguk|gt"htgswgpe{"vjcv"ku"tgukfgpv" qp"vjg"V{ejq"ERW" o qfwng"ku"ugv"xkc"eqpuqng"eqo"ocpf" **dqvpqutdpogjh**"*ugg"Ejcrvgt"5+0"

Digital Buffer Module

Vjg" Fki kvcn" Dwhhgt" Oqfwng" cffu" hqwt" dwhhgtgf" qwrwvu"vq" {qwt"V{ejq0"Ukipcn"ngxgnu"ctg"gvjgt"VVN" *DPE"eqppgevqtu+"qt" TU/454" *FD; O"eqppgevqt+0"Vjg"v{rg"qh"qwrwv"ku"ugv"wr"cv"vjg" hcevqt{ "dcugf"qp" ewuvqogt"tgswktgogpvu"cpf"ecppqv"dg"ejcpigf0" Cxckncdng"qwrwv"v{rgu"ctg"qp/vkog"rwnug"tcvgu"htqo"3" RRU"vq"32"ORRU."3RRO."3RR4U."qt" c" fki kvcn"vkog"eqfg."cnn"cnk"ipgf"vq"u{uvgo"vkog."qt" c"pqv/cnk"ipgf" u{pvjguk|gf"tcvg0"*Pqvg"vjcv" hqt"vjg" TU/454"ngxgn"qwrwvu."tcvgu"cdqxg"3"ORRU"ctg"k"ortcevkecn"fwg"vq" vjg"52"Xlww" TU/454"ungy"tcvg"nk"okv0+""

Kh{qwt" Fki kvcn" Dwhhgt" Oqfwng"ku"ugv"wr" hqt"vkog"eqfg"qt"u{pvjguk|gf"tcvgu"vjgp" {qw"ecp"ejcpig"vjg" vkog"eqfg"qt"tcvg"xkc"eqpuqng"eqo"ocpf" **dqvpqutdpogjh**0"Vjg" o qfwng"eqpL"iwtcvkqp"ecp"dg"xkgygf" d{ "wukpi"eqpuqng"eqo"ocpf" **qmvhjopqut**"*ugg" **Ejcrvgt"5+0**"Hqt"ukipcn"fgLpkvkqp"cpf"FD; O"eqp/ pgevqt"rkpqwv"ugg" **Crrgpfkz"J"/"Urgekhkecvkppu**0"Vjg"gzcorng" o qfwng"dgnqy"ujqyu" c" Fki kvcn" Dwhhgt" Oqfwng"ykvj" hqwt"32ORRU"Qwrwvu0





[qw"ecp"xyg"qt"ejcpi"vjg"wgut"ugwkp"iuhqt"gej"qwrwv"d{"wukpi"vjg"eqo"ocpfu"qmvhjopqut"cpf"
qmvhjopqutdpogjh"ugg"Ejcrvgt"5"/"Eqpvtq"cpf"Uvcvw"Eqo"ocpfu"+0"Cxckncdng"ugngevkqpu"hqt"
gcej"wgut"ugwkp"ictg<

V3"Htcokpi"Oqfg<" " Wphscogf."UH"*F@"cpf"QH"*ETEB@ s i
V3"Cncto"Oqfg<" " V3"Co""Pqpg."CKU."UUO 4 V3"Nk{nf/Qwv<
" V3"Nkpg"Dwnf/Qwv<" " 3/355"hggv."355/488"hggv."488/5;4"hggv."5;wk753"hggv."755/877"hggv
L "

OPTIONAL REAR-PANEL OUTPUTS

Output	Pin	Signal

kh"vjg"V{ejq"nqugu"EFOC"uki pcn"nqem"vjgp"kv"ykm"ftkhv"cv"ctcvg"fgrgpfgpv"wrqp"vjg"kpucmngf"queknnc/
vqt0""Y jgp"kv"jcu"ftkhvgf"o qtg"vjcp"3"o ketqugeqpf"vjg"OVKG"hcwnv"ykm"dg"ugv"cpf"ct"Oclqt"Cnct o "y km"
qeewt0""Vjg"nkuv"dgnqy"uw o o ctk l gu"vjg"ejctv"fcvc0""Kv"ujqyu"jqy"nqpi"kp"jqnfqxtg"gcej"queknncvqt"y km"
dg"wpvkn"kv"gzeggfu"vjg"qpg"o ketqugeqpf"vjtgujqnf<

Ogfkwo /Uvcdknkv{"QEZQ<" 3"jqwt
Jki j/Uvcdknkv{"QEZQ<" 5"jqwtu
Wnvtc/Uvcdng"QEZQ<" 8"jqwtu

Connectors and Cables

Vjg"Vgng eq o "Enqem"Qwvrvw"Oqfwng"ku"cxckncdng"ykvj"vyq"v{ rgu"qh"qwwrvw"eqppgevtu<"DPE"cpf"
TL6: E0""Vjg"DPE"eqppgevt"ku"eq o rcvkdng"ykvj"97"qj o "eqczkcn"ecdng0""Vjg"TL6: E"eqppgevt"ku"eq o /
rcvkdng"ykvj"322/355"qj o "y kuvgf"rckt0""Rkp"cuukip o gpvu"ctg<



OPTIONAL REAR-PANEL OUTPUTS

HTTP Interface Description

Hqt"ugewtkv{"tgcuppu"vjg"ygd"rcigu"qp"vjg"V{ejq"ujqy"uvcvwu"kphqt"ocvkqp"qpn{0""[qw"ecppqv"tgeqpLi / wtg"vjg"V{ejq"gzegr"v"ht"wr"itcfkpi"Łt"o"yctg."y"jkej"ku"fqpg"ykvj"ugxgtcn"ugewtkv{"o"gcuwtku"kp"rnceg0"" Vq"tgeqpLi"wtg"vjg"V{ejq{"qw"yknn"pggf"vq"uwg"vjg"pgvy"qtm"qt"ugtkcn"rqtv"eq"o"cpf"nkpg"kpvgthceg0

NOTE

For proper operation, your web browser must be configured to allow pop-up windows and have Javascript enabled.

Vq"igv"uvctvgf"ykvj"vjg"ygd"kpvgthceg"ukorn{"r"qkpv{"qwt"dtqyugt"vq"vjg"KR"cf"ftguu"qh"vjg"V{ejq"cpf"nqi" kp"ugewtgn{"ykvj"JVVR0""Hqt"gzco"rng<

jwrr<113;4038:0303

C"yctpkpi"fkcnqi"rcig"yknn"dg"rtgugpvvgf"ht"vjg"egtkŁecvg0""Cempqyngfig"vjg"fkcnqi"rcig"cpf"vjg" ugtxgt"yknn"eqpvkpwg"vq"nqcf."rtqvgevgf"d{"UUN0""Vjg"dtqyugt"ujqwnf"fkurnc{"vjg"öNqemö"keqp."kpfkecv/ kpi"vjcv"vjg"rcig"ku"rtqvgevgf"d{"UUN0""Vq"oczko"klg"ugewtkv{"qw"ujqwnf"tgrnceg"vjg"UUN"EgvtŁecvg0"" Ugg"Crngpfkz"F"/"Ugewtkv{"JVVR""ht"fgvcknu0

Dgnqy"ku"c"rkevwtg"qh"vjg"nqikp"rcig<



Navigation

Vjg"ockp"ogpw"vcd"u"cetquu"vjg"vqr"qh"gcej"ygdrcig"cmnqy"{"qw"vq"pexkicvg"vj"tqwi"j"vjg"uvcvwu"kphqt/ ocvkqp"kp"vjg"V{ejq"y"jkn"ng"nkpmu"qp"vjg"nghv"j"cpf"ukfg"qh"gcej"ygdrcig"rtqxf"fg"uwdecvgi"qt{"pexkic/ vkqp0

Hqt"gzco"rng."kp"vjg"rcig"dgnqy"vjg"ockp"ogpw"vcd"u"ctg<"Jqog"Tegekxgt."Enqem."KlQ."Hcwnvu."Pgv/ yqtm."cpf"Hkto"yctg0""Vjg"uwdecvgi"qt{"nkpmu"qp"vjku"rctvkewnct"rcig"ctg<"KRx6"cpf"KRx80""KRx6"ku" ugngevgf0

Ujqyu"kh"cp{"u{uvgo"hcwnv"ku"rtgugpv0""Kh"cu{uvgo"hcwnv"gzkuvu."iq"vq"vjg"Hcwnvu"Rcig"vq"ugg"yjkj"hcwnv"
kv"ku0

Receiver Page

Vjku"rcig"eqpvckpu"kphqto cvkqp"tgncvqf"vq"vjg"EFOC"Tgegkxgt0""Fvcv"Łgnfu"ctg<

Ujqyu"y jgvjgt"vjg"EFOC"tgegkxgt"ku"nqemgf"qt"pqv0

Ujqyu"vjg"ewtgpv"VHQO"xcnwg0""Ugg"*Crrgpfkz"C"/"Vkog"Hkiwtg"qh"Ogtkv*"hqt"oqtg"kphqto cvkqp0

Vjku"ku"vjg"cwvqo cvke"icpk"eqpvtqn"*CIE+"FCE"d{vg."2"vq"477."ykvj"nctigt"pwodgtu"kor n{kpi"jkijgt"
TH"icpk0""Ykvj"iqqf"ukipcn"eqpfkvkqpu"vjku"xcnwg"ku"v{rkecnn{"372"vq"4420

Vjg"ukipcn/vq/pqkug"*UPT+"tcvkq"ku"cp"kp fkecvqt"qh"vjg"EFOC"ukipcn"swcnkv{0""Vjku"pwodgt"owuv"v{rk/
ecnn{"dg"itgcvt"vjcp"407"ht"vjg"kpvtwo gpv"vq"ceswktg"cu"ukipcn0""Dwv"qpeg"kv"jcu"nqemgf."kv"ecp"ockpvckp"
nqem"cv"npw i gt"pw /



Vjku"Łgnf"ujqyu"vjg"enqem"ecnkdtcvkqp"fgnc{"y jkej"ku"wugf"vq"cfxcpeg"qt"tgvtcf"vjg"enqem"kp"qtfgt"vq"
eq o rgpucvg"hqt"cpvgppc"ecdng"ngpivj"qt"qvjgt"gzvgtpcn"jctfyctg0""Wug"vjg"tfudenbdbmefmbz"eq o /
o cpf"vq"ejcpig"vjku"ugvvpki0

Receiver (Oscillator) Page

Vjku"rcig"ujqyu"tgegkxgt"quekncvqt"eqpvtqn"kpht o cvkqp"uwej"cu<

Vjku"Łgnf"ujqyu"vjg"quekncvqt"v{rg"vjcv"ku"kpucvmgf"kp"vjg"V{ejq0""Kv"y knn"dg"gvjgt"c"VEZQ"qt"c"OU/
QEZQ0""Vjg"uvcpctf"quekncvqt"ku"vjg"VEZQ0""Kh" {qw"rwtejcug"cp"quekncvqt"wr itcf"vjku"Łgnf"y knn"
ujqy"OU/QEZQ."JU/QEZQ"qt"WU/QEZQ0

Ku"vjg"wr rgt"38"dkvu"qh"vjg"quekncvqt"xqncig"eqpvtqn"FACE"y qtf."2"vq"87757."ykvj"nctigt"pw o dgtu"
k o rn{kp i"jki jgt"quekncvqt"htgswgpe{0""V{rkecn"tcpig"ku"42222"vq"5: 2220

Vjg"ogcuwtgf"vk o g"gttqt"ku"vjg"ncuv"ogcuwtgf"vk o g"qhugv"y jkng"nqemgf0

Vjku"Łgnf"ujqyu"vjg"vk o g"fgxkcvkqp"*VFGX+"qh"ogcuwtg o gpvu0

Vjku"Łgnf"ujqyu"vjg"tgi tguukqp"eq o rwwgf"quekncvqt"ci gkpi"tcvg"rgt"fc{0""Vjgtg"ku"c"ugxgten/jqwt"fgnc{"
dghqtg"vjg"Łtuv"ogcuwtg o gpv"ku"ujqy p0

Vjku"ku"vjg"quekncvqt"eqpvtqn"nqqr"cxgci kpi"vk o g"eqpuvcp0

Vjg"eqcuv"fwtcvkqp"ku"vjg"pw o dgt"qh"ugeqpfu"kp"eqcuv"o qfg"*wpnqemgf+0

Vjku"Łgnf"ujqyu"vjg"guvk o cvgf"vk o g"gttqt"y jgp"kp"eqcuv"o qfg0

Vjku"Łgnf"ujqyu"vjg"kpvgtpcn"vg o rgtcwtg"kp"ÅE0

Clock Page

Vjku"rcig"ujqyu"vjg"eqpŁi wtcvkqp"qh"vjg"V{ejq"gzegr"hqt"cp{"qrvkpcn"klQ"y jkej"ku"nkuvgf"qp"vjg"klQ"
rcig0""Hkgnfu"ctg<

Vjku"Łgnf"ujqyu"vjg"ewttgpn"vk o g"o qfg"ugvvpki0""Rquukdng"ugvvpki u"ctg"WVE."IRU."Nqecn/cwvq"cpf"
Nqecn/ o cpwcn0""Vjku"ugvvpki"y knn"chhgev"vjg"vk o g"fkurnc{gf"qp"vjg"Vko g"Eqfg"Qwvrvw"cpf"cp{"qrvkpcn"
Ugtkcn"Vko g"Qwvrvw0""Vq"ejcpig"vjg"vk o g"o qfg"ugvvpki"vug"vjg"htqpv/rcpgn"mg{rcflfkurnc{"qt"vjg"
dtztujnfnpefdpogjh"eq o o cpf"xkc"vjg"pgv y qtmlugtkcn"rqt0""Pqvg<""Nqecn/cwvq"fgtkxgu"vjg"nqecn"
qhugv"cpf"FUUV"htq o "vjg"kpht o cvkqp"g o dgffgf"kp"vjg"EF OC"vk o kpi"ukipcn0""Nqecn/ o cpwcn"fgtkxgu"
vjg"nqecn"qhugv"cpf"FUUV"htq o "kpht o cvkqp"gpvtgfd{"vjg"wgft0

Network (DNS) Page

Vjku"rcig"ujqyu"vjg"KR"cf ftguu"qh"vjg"rtk o ct {"cpf"ugeqpfct {"fq o ckp"pc o g"ugt xgtu0

Firmware Page

Vjg"Łt o yctg"uvcvwu"rcig"ujqyu"rctv"pw o dgtu"cpf"xgtukqpu"qh"vjg"Nkpwz"Uwdu {uvg o "Łt o yctg"*tqqv"
Łng"u {uvg o "cpf"mgtpgn+"cpf"vjg"EF OC"Uwdu {uvg o "Łt o yctg0

Vjgug"rcigu"ctg"wugf"hqt"wr i tcfkpi"vjg"Łt o yctg0"" [qw"owuv"dg"nqi i gf"kp"cu"ōtqqvō"kp"qtfgt"vq"jcxg"
ceeguu"vq"vjgug"rcigu0""Vjg"ncvguv"tgngcugf"xgtukqpu"qh"V{ejq"Łt o yctg"ctg"htggn {"cxckncdng"qp"vjg"Gpf/
Twp"ygdukvg0""Hqt"fgvckngf"kphqt o cvkqp"qp"jqy"vq"rgthqt o "vjg"wr i tcf"gvjgt"xkc"vjg"pgvy qtm"rqtv."vjg"
ugtkcn"rqtv."qt"vjg"JVVR"kpvgthceg"ugg"**Crrgpfkz"D"/"Wr i tcfkpi"Vjg"Hkt o yctg0""**Qpn {"vjg"Nkpwz"Uwd/
u {uvg o "tqqv"Łng"u {uvg o "THU+"cpf"vjg"EF OC"Uwdu {uvg o "ecp"dg"wr i tcf"gf"xkc"vjg"JVVR"kpvgthceg0"
Vq"wr i tcf"vjg"Nkpwz"Uwdu {uvg o "mgtpgn"ugg"**Crrgpfkz"D"/"Wr i tcfkpi"vjg"Hkt o yctg."Rgthqt o kpi"vjg"**
Nkpwz"Mgtpgn"Wr i tcf"0

Vjku"rcig"ykm"cmqy" {qw"vq"rgthqt o "c"uqhv yctg"tgdqq"qh"dqvj"vjg"Nkpwz"Uwdu {uvg o "cpf"vjg"EF OC"
Uwdu {uvg o 0""Vjku"ku"pqt o cmn {"wugf"chvgt"c"Łt o yctg"wr i tcf"gdw"ecp"dg"fqpg"cp {vk o g" {qw"ykuj"vq"
tgugv"vjg"V{ejq0

Disabling The
HTTP Protocol

Vq"fkucdng"JVVR" {qw"pggf"vq"gfkv"cu {uvg o "uvctv/wr"uetkrv"ecmgf"lgvelte0fltelnqecn0"Vjku"uetkrv"uvctvu"


```
vjg"u{uvgo"dqqu"pqtocnn{.vjgp{qw"ujqwnf"tguqnxg"vjg"rtqdn"ou"ykvj"vjg"rtgkxkwu"wr itc"fg"cpf"tg/
rghqt"o"kv0
```

Performing the Linux Kernel Upgrade

```
Vjg"V{ejq"ku"ujkr"rgf"htq"o"vjg"ncevt{ykvj"cmgtpgn"vjcv"ku"KRx6/qpn{ecrcdn"qpn{0"Kh}{qw"ycpv"
vq"wr itc"fg}{qwt"mgtpgn"vq"vjg"KRx6|KRx8/ecrcdn"qpg"vjgp}{qw"owuv"Łtu"dg"uwtg"vjcv}{qwt"tqq"Łng"
u{uvgo"ku"xgtukqp"4082"qt"ncvgt0"Vq"ugg"vjg"tqqv"Łng"u{uvgo"xtukqp"v{rg"dtztwfstjpo"cv"vjg"pgvyqtml
ugtkcn"rqtv0
```

```
Vq"wr itc"fg}{qwt"mgtpgn."nqi"kp"cu"vjg"tqq"vugt"vq"vjg"V{ejq"wukpi"vjg"nqecn"eqpuqng"ugtkcn"KlQ"rqtv."
ufmofu"qt"t"ti"cpf"rghqt"o"vjgug"qrgtcvkqpu<
```

```
Kh}{qw"ctg"wukpi"guq"vq"rghqt"o"vjg"wr itc"fg."vtcpuhgt"vjg"rtgkxkwun{f"qypnqcf"fg"Łng"wukpi"dkpct{
vtcpuhgt"o"qfg"htq"o"vjg"tg"o"qvg"jqv"vq"cv"o"rgtct{ "nqecvkqp"qp}{qwt"V{ejq"wukpi"HVR0"Vjg"KRx8"
mgtpgn"ko"ci"ykn"dg"pc"ogf"ykvj"vjg"uqhv"yctg"rctv"pw"odgt"nkmg<"8232/2263/3220d/ko"ci"gl0"Yjgp"hn/
nq"y"kp"i"vjg"kpvtwevkqpu"dg"nq"y."uwdvkvwvg"vjg"pc"og"qh"vjg"cevwc"n"mgtpgn"ko"ci"ykvj"vq"vq"ctg"kpucm"kp"i"
hqt"8232/2263/3220d/ko"ci"gl0"kuuwg"vjgug"eq"o"opfu"htq"o"vjg"eqpuqng"qh}{qwt"V{ejq<
```

```
guq!sfnpuf`iptu! |rghqt"o"hrv"nqikp"qp"tgoqvg"jqvuc
cjo" " " " " |ugv"vtcpuhgt"oqfg"vq"dkpct{;
hfu!7121.1152.211/c{jnbhf!0unq |vtcpuhgt"vjg"ing;
rvju"ÁÁÁÁÁÁÁÁÁÁÁ Á Á Á |enqug"vjg"hrv"uguukqp"chvgt"vtcpuhgtÁc
```

```
Kh}{qw"ctg"wukpi"t"ti."{qw"oc{"qrgp"ce"eq"o"ocpf"ykp"fy"qp"vjg"tg"o"qvg"eq"o"rwwgt"cpf"ugewtgn{"vtcpu/
hgt"vjg"tqq"v"Łng"u{uvgo"ko"ci"ykn"vq"vjg"t"dq"htq"o"vjg"tg"o"qvg"eq"o"rwwgt"vq}{qwt"V{ejq"0"C"eq"o"ocpf"nkmg"
vjku"ujqwnf"dg"vugf<
```

```
t"dq! q!7121.1152.211/c{jnbhf!sppuAdtzt/zpvs/epnbjo;0unq
```

```
Vjg"mgtpgn"wr itc"fg"vknkv{"ku"gzg"ewvgf"ykvj"cm"ukping"ctiw"ogpv"rcuugf"qp"vjg"eq"o"ocpf"nkpg<"vjg"rcvj"
vq"vjg"rtgkxkwun{"wrnqcf"fg"mgtpgn"ko"ci"ykn"vq"vjg"t"dq"htq"o"vjg"tg"o"qvg"eq"o"rwwgt"vq}{qwt"V{ejq"0"C"eq"o"ocpf"nkmg"
vjku"ujqwnf"dg"vugf<
```

```
vqhsbeflfsom!0unq07121.1152.211/c{jnbhf
```

```
Vjg"mgtpgn"wr itc"fg"vknkv{"xgkŁgu"vjg"kpvg"itkv{"qh"vjg"Łng."tgc"fu"vjg"mgtpgn"xtukqp"kpht"o"cvkqp."rtgu/
gpw"kv"vq}{qw"cpf"cumu}{qw"vq"xgkŁh{"dghq"tg"trncekp"i"vjg"qnf"mgtpgn"ko"ci"ykn"vq"vjg"t"dq"htq"o"vjg"tg"o"qvg"eq"o"rwwgt"vq}{qwt"V{ejq"0"C"eq"o"ocpf"nkmg"
vjku"ujqwnf"dg"vugf<
```

CAUTION

A power failure during the kernel erase and write operation would render your unit unbootable. It is highly advisable to plug your unit into a UPS while performing the kernel upgrade.

Performing the CDMA Subsystem Upgrade

```
Vq"rghqt"o"vjku"wr itc"fg."nqi"kp"cu"vjg"tqq"vugt"vq"vjg"V{ejq"wukpi"gvjgt"vjg"nqecn"eqpuqng"ugtkcn"KlQ"
rqtv."ufmofu"qt"t"ti"cpf"rghqt"o"vjgug"qrgtcvkqpu<
```


kp"cdqww"vgp"ugeqpfu."v jg"EFOC"Uwdu{uvgo"cr rnkecvkqp"uvctv/wr" o guucigu"ujqwnf"cr rgct<

GX! 7121.1131.111!w!2/11! .!Bvh! 29! 3115! 21;58;52

GQHB! 7131.1116.111!w!1313

!

V jg"Łto yctg"xgtukqp"ujqwnf" ovej"v jcv"qh"v jg"dkpct{ "Łng"v jcv"{qw"wrnqcfgf0""Cv"v jku"rqkp."v jg" vqhsbefdenb"uetkrv"vgt o kpcvgu"kvu"gzgewkqp."cpf"{qw"y knm"ci ckp"j cxg"v jg"uvcpfctf"V{ejq"eqpuqng" rtq o rv0

Chvgt"cdqww"qpg" o kpwvg."{qw"ujqwnf" swgt{"v jg"EFOC"Łto yctg"xgtukqp"wukpi"v jg"eq o o cpf<

denbwfstjpo

V jg"wr i tcfgf"xgtukqp"kphqt o cvkqp"ujqwnf"dg"fkurnc{gf0

Problems with the CDMA Subsystem Upgrade

U jqwnf"{qw"j cxg"fkhŁewwvkgu"y kvj"v jg"wr i tcfgf"fwg"vq"ceqttwrv"Łng."rqygt"hcknwtg"fwtkpi"wrnqcf."qt" qvjgt"ceekfgpv."fq"pqv"dg"cnct o gf0""Gxgp"v j qwi j"{qw" o c{"j cxg"nquv"v jg"gzkuvkpi"cr rnkecvkqp"rtqi tco." v jg"EFOC"Uwdu{uvgo"dqvnqcfgt"rtqi tco"y knm"tg o ckp"kpvcv0""Qp"dqqv"wr."kv"y knm"ej gem"vq"ugg"kh"c" xcnkf"cr rnkecvkqp"rtqi tco"ku"kp"v jg"HNCUJ" o go qt{0""Kh"v jgtg"ku"pqv."kv"y knm"ko o gfkcvgn{"i q"kpqv"v jg" ÷ yckvki"ht"fqypnqcf0" o qfg0"" [qw" o c{"xgtkh{"v jku"d{"kuuwkpi"v jku"eq o o cpf<

dbu!=!0efw0bsn`vtfs

kq"ujqwnf"pqy"ugg"v jg"÷Eø"ejctcevt"dgkpi"tgegkxgff"gxgt{"v jtg"ugeqpfu0""V jku"ku"v jg"ejctcevt"v jcv" v jg"EFOC"Uwdu{uvgo"dqvnqcfgt"ugpfu"vq"kpfkcev"vq"v jg"ZOQFGO"wwknkv{"v jcv"kv"ku"y cvkpi"ht"c" fqypnqcf0"" [qw" o c{"pqy"tgvt{"v jg"wrnqcf"rtqegfwtg."cuuw okpi"v jcv"{qw"j cxg"eqttgev"cp{"qtkikpcn" SdHfEyoj"lQgRkPcU PáO• € 00` € q€ TÀ @ p @ f~fA•s"R P ð F Añ h9xfA <("QfR P ð

Pqy"yckv"wpvkn"{qw"ugg"cpqvjgt"dqqvncfgt"o guucig"eqog"qww"cpf"vjgp"rtguu"gpvgtl"" [qw"ykm"vjgp"ugg"
vjg"öEö"eqog"qww"gxgt{"5"ugeqpfu0"" [qw"vjgp"mkm"vjg"rtgxkqwu"dbu"eqog"ocpf"d{"gpvgtkpi<

1jmm!%"

[qw"ujqwnf"ugg"c"eqog"ocpf"rtqorv0""Pqy"kuuwg"vjku"eqog"ocpf"vq"tg/vtcpuht"vjg"eqttgev"dkpct{"Lhg<
vqhsbefdenb!0unq07121.1131.111`4/12/cjo

IMPORTANT

After editing `u-boot`, you must copy it to the `u-boot` directory and reboot the system. It is very important to retain the access mode for the file (readable only by `root`), so be sure to use `chmod 700` when performing the copy. During the boot process, the files contained in the `u-boot` directory are copied to the working `u-boot` directory on the system RAM disk. In this way the factory defaults are overwritten.

Configuration of SNMPv3

```
kh {qw"ctg"rncppkpi"vq"wug"UPORx5." {qw"ujqwnf"fgLpkvgn{" ocmg"wug"qh"vjg"vyq"tguqwtegu" o gpvkqpgf"
rtgxkqwun{"*PGV/UPOR"ygdukyg"cpf"Guugpvkcn"UPOR+"cpf"uvwf{"vjg o"ectghwnn{"0""Vjgtg"ctg"tcvjgt"
gncdqtcvg"eqpLiwtcvkqp"qrkqpu"cxckcdng"y jgp" {qw"ctg"wukpi"x50""Vjg"kpvtwekqp"rtgugpvvgf"jgtg"yknn"
ikxg" {qw"vjg"1cxqt"qh"vjg"eqpLiwtcvkqp"dww"fgLpkvgn{"pqv"vjg"hwnn"ueqrg"qh"rquukdknkvgu0""Vq"ceeguu"
{qwt"V{ejq"xkc"x5"qh"UPOR" {qw"yknn"jcxg"vq"eqpLiwtg"vyq"Lnqu<
```

```
lgveluporflqph
```

```
ldqqvlpqv/uporluporflqph
```

```
Vjg"Łtuv"Łng"eqpvckpu"uvckke"eqpLiwtcvkqp"rctc o gvtu"vjcv"vjg"ci gpv"wugu"vq"eqpvtqn"ceeguu"cpf"vq" fg/
vgt o kpg"y jgtg"vq"ugpf"pqvkŁecvkqpuvtcr0""Qvjgt"curgevu"qh"vjg"ci gpvvu"qrgtcvkqp"ctg"cnuq"eqpLiwtcdng"
kp"vjku"Łng."dww" {qw"ujqwnf"pqv"pggf"vq" o qfkh{"vjqug0""Vq"wug"vjg"UPORx5"ecrcdknkvgu"qh"vjg"V{ejq."
```



```
vjg o "vq"vjg"ldqqvlgve" fktgevqt {0""*Ugg"Wukp i"Gfkw"cdqxg0+""Dg"ectghwn"vq" o ckpvcckp"vjg"rtqrgt"qypgtujkr"
cpf"ceeguu"rgt o kuukqpu"d{ "wukpi"dq! .q"y jgp"eqr {kpi"vjg"Lngu0
```

```
Vq"eqpvtqn"ceeguu"xc" J VVR."vjg"wugt" o wuv"gfkw"vjg"lgvelcrcejgljvrf0eqph"Lng"cpf"cff"vjg"gswxcnpgpv"
fgp{"hqnnqygf"d{ "cnnqy" fktgevkgu0""Hqt"gzco"rng."vjg"fghecnv"Lng"eqpvckpu"vjgug"nkpgu<
```

```
%"Eqpvtqnu"y jq"ecp" i gv"uvwhh"htq o "vjku"ugtxgt0
```

```
%
```

```
" Qftgt"cnnqy.fgp{
```

```
" Cnnqy"htq o "cnn
```

```
>|Fktgevqt{@
```

```
Vq"tguvtkev"ceeguu"vq"cu"rgekEe"jqv"ykvj"KR"cfftguu"zzz0zzz0zzz0zzz."{qw"yqwnf" o qfkh{"vjg" fktgevkgu"
cu"uq<
```

```
%"Eqpvtqnu"y jq"ecp" i gv"uvwhh"htq o "vjku"ugtxgt0
```

```
%
```

```
" Qftgt"cnnqy.fgp{
```

```
" Fgp{"htq o "cnn
```

```
" Cnnqy"htq o "zzz0zzz0zzz0zzz
```

```
>|Fktgevqt{@
```

! Disabling Protocols

```
[qw" o c{"eq o rngvgn{"fkucdng"cp{"qh"vjg"hqnnqy kpi"rtqvqeqnu<""Vgnpgv."VKOG."FC[ VKOG."UUJ."UPOR"
cpf"J VVR)""
```

Disable Telnet, TIME and DAYTIME

```
Vq"fkucdng"Vgnpgv."VKOG"cpf"FC[ VKOG"wug"vjg"jofuedpogjh"eq o c p f 0 ""jofuedpogjh" o q f k /
Lgu"vjg"lgvelkpgvfl0eqph"Lng"y jkej"ku"tgcf"d{ "jofue"vq"uvctv/wr"xctkqwu"rtqvqeqn"ugtxgt"fcg o qpu"y jgp"
tgs wguvu"htq o "tg o qvg"jqvuv"ctg"tgegkxgf0""Ewtgpm{"vjgg"ugtxgtu"ctg"eqpLi wtdcng"xc"jofuedpo.
gjh<""VKOG"cpf"FC[ VKOG."y jqug"fcg o qpu"ctg"eqpvckpgf"ykvj k p"vjg"jofue"fcg o qp"kvugn."cpf"
jo/ufmofue0""Cp{"qpg"qt"cnn"qh"vjgug" o c {"dg"gpdcngf"qt"fkucdngf"ht"uvctv/wr0
```

Disable SNMP and HTTP

```
Vq"fkucdng"UPOR"cpf"J VVR."gfkw"cu"u{uvg o "uvctv/wr"uetkrv"ecnngf"lgvelte0flte0nqecn0"Vjku"uetkrv"uvtvu"
ugxgtcn"qh"vjg"fcg o qpu"twppkpi"qp"vjg"u{uvg o 0"" [qw"u jqwnf"hqnnqy"vjg"kpvtwevkqpu"eqpvckpgf"kp"eq o /
ogpvu"kp"vjg"Lng"ht"fkucdnkpi"vjg"tonqe!cpf"iuuqe"fcg o qpu0""Rncekpgf" O O
```

IMPORTANT

After editing

Cfxcpegf"wugtu"ykujkpi"vq"oqfkh{"vjg"eqpLi wtcvkqp"qh"vjg"ttie"fcg o qp"ujqwnf"gfkv"vjg"lgveluujfa
 eqphki"Lng"cpf"vjgp"eqr{"kv"vq"vjg"ldqqvlgve"fkgtgevt{"qh"vjg"V{ejq0"Dg"ectghwn"vq"ockpvckp"vjg"rtqrgt"
 qypgtujkr"cpf"ceeguu"rgt o kuukqpu"d{"wukpi"da! .a" y jgp"eqr{"kpi"vjg"Lng0"Cv"dqqv"vk o g."kv"yknn"dg"
 eqrkgf"vq"vjg"lgve"fkgtgevt{"qh"vjg"u{uvg o "tc o fkm."vjgtgd{"tgrncekpi"vjg"hcevt{"fghcwnv"eqpLi wtcvkqp"
 Lng0

Vq"fkucdng"UUJ."ugg"fkucdng"UUJ"cdqxs0

HTTP

Vjg"JVVR"ugtxgt"kp"vjg"V{ejq"ku"dwknv"htq o "vjg"uvpcfctf"Crcejgl305055"fkuvtkdvwkqp"htq o <

"jwr<ljwrf0crcejg0qti"

Kv"wugu"JVVRU"*JVVR"qxgt"UUN+"ykvj"oqfaun"*vjg"Crcejg"kpvgthceg"vq"QrgpUUN+0"Hqt"oqtg"kphtq/
 ockvqp"cdqvw"vjku"rtqvqeqn."tghgt"vq"jwr<y y 0 o q fuun0qti0

JVVR"cpf"UUN"wug"vyq"Lngu"ht"vjg"fghcwnv"eqpLi wtcvkqp"nqecvfg"kp"lgvelcrcejg0"Vjgug"ctg"jwrf0eqph"
 cpf"uun0eqph0"Cfxcpegf"wugtu"yjq"pggf"vq"oqfkh{"vjg"fghcwnv"eqpLi wtcvkqp"yknn"pggf"vq"gfkv"vjgug"vyq"
 Lngu"cpf"eqr{"vjg o "vq"vjg"ldqqvlgvelcrcejg"fkgtgevt{"0"*Ugg"Wukpi"Gfhw"cdqxs0+

Hqt"UUN"kv"ku"tgeq o o gpfgf"vjcv"pgy"egtvkLecvgu"ctg"i gpgtcvfg"cpf"kpuvcnngf"qp"vjg"Crcejg"ygd"ugtxgt"
 ykvj"oqfaun0"Vjg"ewttgvp"egtvkLecvgu"kpenwfgf"ctg"nqecvfg"kp"lgvelcrcejgluun0evt."lgvelcrcejgluun0eut."
 cpf"lgvelcrcejgluun0mg/0"Pg y"egtvkLecvgu."EUTu."cpf"rtkxcvg"mg{u"yknn"pggf"vq"dg"ucxgf"kp"ldqqvlgvel
 crcejgluun0etv."ldqqvlgvelcrcejgluun0eut."cpf"ldqqvlgvelcrcejgluun0mg/"fkgtgevtkgu0

D{"fghcwnv."vjg"Crcejg"ugtxgt"eqpLi wtcvkqp"Lng"jwrf0eqph"ht"jwrf"ku"hcevt{/eqpLi wtf0"Kv"eqpvckpu"
 vjg"eqpLi wtcvkqp"fkgtgevxgu"vjcv"ikxg"vjg"ugtxgt"kvu"kpuvtwevkqpu0"Cnvjqw i j"pqv"tgswtg f."vjg"fkgtgevxgu"
 oc{"dg"ejcpigf"d{"gfkvpi"lgvelcrcejgljwrf0eqph."cpf"vjgp"eqr{"kpi"kv"vq"ldqqvlgvelcrcejg0"fq"pqv"
 cwgo rv"vq"ejcpig"vjg"fkgtgevxgu"wpnguu" {qw"jcxg"ctgc"pggf"vq"fq"uq0

Cp"gzegmgpv"dqqm"y jkej"fguetkdgu"qrgtcvkqp"cpf"eqpLi wtcvkqp"qh"vjg"xctkqwu"JVVR"fkgtgevxgu"cpf"
 UUN"eqpLi wtcvkqp"ku<

" Rtqhguaqpcn"Crcejg."Yckpytki jv."Ytqz"Rtguu."3 ; ; 0"

Vq"fkucdng"JVVR."ugg"fkucdng"UPOR"cpf"JVVR"cdqxs0

Background Information

Cpqvjgt"yc{"vq"igv"vjg"ngcr"ugeqpf"kpht o cvkqp"ku"vq"iq"vq"vjg"Kpvgtpcvkqpcn"Gctvj"Tvqvcvqp"Ugtxkeg"
 *KGTU+"y gdukyg0"kh"c"ngcr"ugeqpf"ku"rgpfkpi"kv"y kn"dg"rqvvgf"d{"vjg"KGTU"cr rtqzk o cvgn{"ukz" o qpvju"
 kp"cfxcpeg"qh"kpugtkqp0"Vjku"kpht o cvkqp"ku"cxkncdng"kp"vjg"ncvguv"Dwnngvvp"E"cv"vjg"KGTU+"y gdukyg<

jwr<ll y y0kgtu0qti

Ngcr"ugeqpfu"ctg"kpugtvvgf"htq o "vk o g/vq/vk o g"kp"qtfgt"vq"mggr"WVE." y jkej"ku"fgtkxgf"htq o "cvq o ke"
 vk o g"VCK+. "kp"ci tgg o gpv"y kvj"vjg"Gctvj0"tqvcvqp"tcvg0" Tgnvcvkg"vq"VCK."vjg"Gctvj0"tqvcvqp"tcvg"ku"
 unqykp i "fqy p0"Vjku" o gcpu"vjcv"WVE" o wuv"dg"tgvtfgf"rgtkq fkecnn{"kp"qtfgt"vq" o ckpvckp"ci tgg o gpv"
 dgvyggp"WVE"cpf"vjg"cr rctgpv"fc{ngpi vj0"kh"vjku"y gte"pqv"fqpg."gxgpwcn{"WVE"y qwnf"ftkh"qww/qh/
 u{pe"y kvj"Gctvj0"fc{"cpf" o cp{"cuvtqq o kecn"cpf"pcxki cvkqpcn"rtqdn o u"y qwnf"gpuwg0

Vjg"Kpvgtpcvkqpcn"Gctvj"Tvqvcvqp"Ugtxkeg"KGTU+"ku"vjg"qti cpk|cvkqp"tgurqpukdng"htq" o gcuwtkpi"vjg"
 tgnvcvqpujkr"dgvyggp"WVE"cpf"vjg"tqvcvqp"tcvg"qh"vjg"Gctvj0"Yjgp"vjg"fkhhgtgpeg"dgvyggp"WVE"cpf"
 cr rctgpv"Gctvj"vk o g"jcu"gzegfgf"c"egtvckp"vj tgujqnf."vjg"KGTU"eqqtfkpcvgu"y kvj"vjg"Dwtgcw"Kpvgtpc/
 vkqpcn"qh"vjg"Jqwt"DKJ+"vq"uejgfwng"vjg"kpugtkqp"qh"c"ngcr"ugeqpf"kpq"vjg"WVE"vk o g"uecng0"

Vjg"KGTU"rwdnkujgu"Dwnngvvp"E"cdqww"8" o qpvju"kp"cfxcpeg"qh"gej" rquukdng"ngcr"ugeqpf"kpugtkqp"
 rqkv0"Ngcr"ugeqpfu" o c{"qpn{"dg"kpugtvvgf"cv"WVE" o kfpki j"v"qh"Lwpg"52"qt" Fgeg o dgt"530"Dwnngvvp"
 E"eqpŁt o u"gkvjgt"vjcv"c"ngcr"ugeqpf"y knn"qt"y knn"pqv"dg"kpugtvvgf"cv"vjg"pgzv"rquukdng"kpugtkqp"r qkv0"
 Ukpeg"vjg"kpvtqfwevqp"qh"ngcr"ugeqpfu"kp"3;83."vjg{"jcxg"dgpp"cf ffgf"cr rtqzk o cvgn{"qpeg"gxgt{"3:"
 o qpvju0

Vjg"ngcr"ugeqpfu"y jkej"ctg"pggfgf"htq" {qwt"V{ejq"ctg"cevwn{"vjg"fkhhgtgpeg"dgvyggp" IRU/WVE0"
 Vjg" IRU"vk o g"uecng"dgicp"qp"Lcpwct{"8."3; :20"Cv"vjcv"vk o g."vjg"WVE"vk o guecng"jcf"cntgcf{"wpfgt/
 i qpg"3;"ngcr"ugeqpf"kpugtkqp"gxgpvu0"kh" {qw"ctg"qdvckpki" {qwt"ngcr"ugeqpf"kpht o cvkqp"htq o "vjg"
 KGTU"y gdukyg." {qw"y knn"pggf"vq"uwdvtcev"3;"htq o "vjg"VCK/WVE"ngcr"ugeqpf"xcnwgw"rwdnkujgf"vjg"tg"vq"
 qdvckp" IRU/WVE."vjg"pw o dgt"pggfgf"vq"ugv"vjg"ewttgpv"cpf"hwvwtg"ngcr"ugeqpfu"htq"vjg"V{ejq0"Cv"vjg"
 vk o g"qh"vjku"y tkvki"kp"Lwn{"qh"4227."VCK/WVE"y cu"54"ugeqpfu"cpf" IRU/WVE"y cu"35"ugeqpfu0

IEEE-1344 Bit Definition

IPv6-Capable syslog-ng

```
Vq"gpdcng"tg o qvg"u{ unqi i kpi "vq"cp"KRx8"jquv." {qw"ykn"pggf"vq"gfkv"vjg"pgy"lgvelu{unqi/pi0eqph"Lnq"
cpf"eqr {"kv"vq"ldqqvlgve0""Cv"dqqv"vk o g."vjg"rtgugpeg"qh"dqvj"vjg"tztmph.oh"fcg o qp"cpf"vjg"dqqvlg
velu{unqi/pi0eqph"Lnq"ykn"ecwug"vjg"pgy"KRx8/ecrcdng"tztmph.oh"fcg o qp"vq"dg"uvctvgf"kpugcf"qh"
vjg"rtgkqwu"tztmph01mphe"rckt"qh"fcg o qpu0""Vjgug"vyq"Lnq"tg o ckp"qp"vjg"u{ uvg o "hqt"dcemyctf"
eq o rcvdknkv {"ykvj"ewuvq o gtuo"gzkuvkpi "lgvelu{unqi0eqph"ugvru."dww"vjg {"ctg"pqv"KRx8"ecrcdng0""Kh" {qw"
ctg"pqv"ewttgprn {"fktgevkpi" {qwt"u{ uvg o "nqi u"vq"ctg o qvg"jquv."qt" {qw"ctg"pqv"wukpi "KRx8."vjgp"vjgtg"ku
```


Yg"rtqvge" {qwt"tki jvu" ykvj"vyq"uvg"ru<*3+"eqr {tki jv"vjg"uqhv yctg."cpf"*4+"qhht" {qw"vjku"nkegpug" y jkej" i kxgu" {qw"ngi cn" rgt o kuukqp"vq"eqr {."fkuvtkdwg"cpflqt" o qfkh { "vjg"uqhv yctg0"

Cnuq."hqt" gcej"cwvjqt0"rtqvgevkqp"cpf"qwtu."yg"ycpv"vq" o cmg"egtvckp"vjcv"gxgt {qpg"wpfgtuvcpfu"vjcv" vjgtg"ku"pq" ycttcpv { "hqt"vjku"htgg"uqhv yctg0"kh"vjg"uqhv yctg"ku" o qfkgf" d { "uq o gqpg"gmug"cpf"rcuugf"qp." yg"ycpv"kvu"tgekrkppvu"vq"mpqy"vjcv" y jcv"vjg { "jcxg"ku"pqv"vjg"qtki kpcn."uq"vjcv"cp { "rtqdn" o u"kpvtq/ fwegf" d { "qvjgtu" y km"pqv"tg f gev"qp"vjg"qtki kpcn"cwvjqtu0"tgrwvcvkpu0"

Hkpcnm {."cp { "htgg"rtqitc o "ku"vjtgcvpgpf"eqpucpv { "d { "uqhv yctg"rcvcpvu0" Yg"ykuj"vq"cxqkf"vjg"fcv/ i gt"vjcv"tgfkuvtkdwvqtu"qh" c"htgg"rtqitc o "y km"kpfxkfwcnn { "qdvckp"rcvcpv"nkegpugu."kp"ghhgev" o cmkpi" vjg"rtqitc o "rtqrktgvc { 0"Vq"rtgxgp"vjku."yg"jcxg" o c f g"kv"engct"vjcv"cp { "rcvcpv" o wuv"dg"nkegpugf" hqt" gxgt { qpg0"htgg" wug"qt"pqv"nkegpugf"cv"cn0"

Vjg"rtgekug"vgt o u"cpf"eqpfvkqpu" hqt"eqr {kpi."fkuvtkdwkqp"cpf" o qfkg"ecvkqp" hqnnqy0"

I PW" I GPGTCN"RWDNKE"NKEGPUG"
VGTOU"CPF"EQPFVKQPU"HQT"EQR [KP I."FKUVTKDWVKQP"CPF"OQFKHKECVKQP"

20"Vjku"Nkegpug"crnkgu"vq"cp { "rtqitc o "qt"qvjgt"y qtm" y jkej"eqpvckpu" c"pqvkeg"rncegf" d { "vjg"eqr {tki jv" j qnfgt"uc {kpi"kv" o c { "dg"fkuvtkdwg"wpfgt"vjg"vgt o u"qh"vjku" I gpgtcn"Rwdnke"Nkegpug0"Vjg"0Rtqitc o 0." dgnqy."tghgtu"vq"cp { "uwej"rtqitc o "qt"y qtm."cpf" c"0y qtm"dcugf"qp"vjg"Rtqitc o 0" o gcpu"gvjgt"vjg" Rtqitc o "qt"cp { "fgtkxcvkg" y qtm"wpfgt"eqr {tki jv"nc y <"vjcv"ku"vq"uc {."c" y qtm"eqpvckpki"vjg"Rtqitc o "qt" c"rqtvkqp"qh"kv."gvjgt" xgtdcvk o "qt"y kvj" o qfkg"ecvkqpu"cpflqt"vtpuncvfg"kpq"cpqvjgt"ncpi wci g0"* Jgtgk/ chvgt."vtpuncvkqp"ku"kpewfgf" y kvj qvw"nk o kvcvkqp"kp"vjg"vgt o "0 o qfkg"ecvkqpu0+"Gcej"nkegpug"ku" c f ftguugf" cu"0 { qw00"

Cevkxkvku"qvjgt"vjcv"eqr {kpi."fkuvtkdwkqp"cpf" o qfkg"ecvkqp"ctg"pqv"eqxgtgf" d { "vjku"Nkegpug"vjg { "ctg" qvwukfg"kvu"ueqrg0"Vjg"cev"qh"twppki"vjg"Rtqitc o "ku"pqv"tgvtkvfgf."cpf"vjg"qvwrvw"htq o "vjg"Rtqitc o " ku"eqxgtgf"qpn { "kh"kvu"eqpvcpvu"eqpucvkwg" c" y qtm"dcugf"qp"vjg"Rtqitc o " *kpfgrgpgp"qh"jcxkpi" dggp" o c f g" d { "twppki"vjg"Rtqitc o +0" Y jgvjgt"vjcv"ku"vtwg"fgrgpfu"qp" y jcv"vjg"Rtqitc o " f qgu0"

30" [qw" o c { "eqr { "cpf"fkuvtkdwg" xgtdcvk o "eqrkgu"qh"vjg"Rtqitc o 0"uqwtg"eqfg"cu" {qw"tgegkxg"kv."kp" cp { "ogfkwo."rtqxkfgf"vjcv" {qw"eqpurkewqun { "cpf"cr"rtqrktcvgn { "rwdnku"j"qp"gej"eqr { "cp"cr"rtqrktcvg" eqr {tki jv"pqvkeg"cpf" fkuenck o gt"qh" ycttcpv {="mgg"r"kpcev"cnm"vjg"pqvkegu"vjcv"tghgt"vq"vjku"Nkegpug"cpf" vq"vjg"cdugpeg"qh"cp { "ycttcpv {="cpf" i kxg"cp { "qvjgt"tgekrkppvu"qh"vjg"Rtqitc o "c"eqr { "qh"vjku"Nkegpug" cnqpi" y kvj"vjg"Rtqitc o 0"

[qw" o c { "ejctig" c" hgg" hqt"vjg"rj { ukecn"cev"qh"vtpuhgttkpi" c"eqr {."cpf" {qw" o c { "cv" {qwt"qrvkqp"qhht" ycttcpv { "rtqvgevkqp"kp" gzejcpi g" hqt" c" hgg0"

40" [qw" o c { " o q f k h { { q w t " e q r { " q t " e q r k g u " q h " v j g " R t q i t c o " q t " c p { " r q t v k p " q h " k v . " v j w u " h q t o k p i " c " y q t m " d c u g f " q p " v j g " R t q i t c o . " c p f " e q r { " c p f " f k u v t k d w g " u e w j " o q f k g " e c v k q p u " q t " y q t m " w p f g t " v j g " v g t o u " q h " U g e v k q p " 3 " c d q x g . " r t q x k f g f " v j c v { q w " c n u q " o g g v " c n m " q h " v j g u g " e q p f k v k q p u c "

c+ [qw" o wuv"ecwug"vjg" o qfkgf" Lngu"vq"ectt { "rtq o kpgpv"pqvkegu"uvckpi"vjcv" {qw"ejcpi g f"vjg" Lngu"cpf" vjg"fcvg"qh"cp { "ejcpi g0"

d+ [qw" o wuv"ecwug"cp { "y qtm"vjcv" {qw"fkuvtkdwg"qt"rwdnkuj."vjcv"kp" y j qng"qt"kp"rctv"eqpvckpu"qt"ku"fg/

:0"Kh"vjg"fkutkdwvkqp"cpflqt"wug"qh"vjg"Rtqitco"ku"tguvtkevgf"kp"egtvcckp"eqwptkgu"gvjgt"d{"rcvppu"qt"d{"
eqr{tkijvgf"kpvgthcegu."vjg"qtkikpcn"eqr{tkijv"jqnfgt"yjq"rncegu"vjg"Rtqitco"wpfgt"vjk"Nkegpug"oc{"
cff"cp"gzrnkekv"igqitcrjkecn"fkutkdwvkqp"nkokvcvkqp"gzewfkpi"vjqug"eqwptkgu."uq"vjcv"fkutkdwvkqp"ku"
rgtokvvgf"qpn{"kp"qt"coqpi"eqwptkgu"pqv"vjwu"gzewfgf0"kp"uwej"ecug."vjk"Nkegpug"kpqtrqtcvgu"vjg"
nkokvcvkqp"cu"kh"ytkvvgp"kp"vjg"dqf{"qh"vjku"Nkegpug0"

;0"Vjg"Htgg"Uqhvyctg"Hqwpfcvkqp"oc{"rwdnkuj"tgxkugf"cpflqt"pgy"xgtukqu"qh"vjg" I gpgtcn"Rwdnke"

Uki pcn<"C o rnk wfg/ o qfwncvfg"*CO+. "5<3"tcvkq"3"m J | "ecttkgtl
 Ftkxg<"3"Xt o u"kp vq"72 0
 Wugt/Ugngevc dng"Vk o g"Eqfg"Hqt o cvu<"KTK I /D"*342IKGGG/3566."344."345+."PCUC/58."qt"43590
 Eqppgevt<"Tgct/rcpgn"DPE"ncdngf"öCO"EQFGö0
 Pqvg<"Vq"ejcpi g"vjg"vk o g"eqfg"ht o cv"ugg"vjg"**dqvpqut**"cpf"**dqvpqutdpogjh**"eq o o cpfu"kp"**Ej crvgt**"
5"/Eqpvtqn"cpf"Uvcwuw"Eq o o cpfu0"Cnuq"ugg"**Crrgpfkz**"H"/"Vk o g"Eqfg"Hqt o cvu0

Uki pcn<"KIQ"rqt v"cv"TU/454"ngxgnu"ht"ugewtg."nqecn"vgt o kpcn"ceegu0
 Rctc o gvtu<"3;422"dcwf.": "fcvc"dkvu."pq"rctkv{"3"uvqr"dkv0
 Eqppgevt<"Tgct/rcpgn"FD/; O"eqppgevt"ncdngf"öTU/454ö0"Rkpqvw"ku"ujqyp"dgnqy0
 Pqvg<"Hqt"qrgtcvkqpcn"fgvcknu"ugg"**Ej crvgt**"5"/"Eqpvtqn"cpf"Uvcwuw"Eq o o cpfu0

3	Pqv"Eqppgevgf
4	Tgegkxg"Fcvc"*TZ+
5	Vtcpu o kv"Fcvc"*VZ+
6	Fcvc"Vgt o kpcn"Tgcf{"*FVT+
7	I tqwpf
8	Fcvc"Ugv"Tgcf{"*FUT+
9	Tgswguv"Vq"Ugpf"*TVU+
:	Engct"Vq"Ugpf"*TVU+
;	Pqv"Eqppgevgf

UUJ"ugtxgt"ykvj"öugewtg"eqr {ö"wwkqv{"UER
 UPOR"x3."x4e."x5"ykvj"Gpvgrtkug"OKD
 V\OG"cpf"FC[V\OG"ugtxgt
 VGNPGV"enkpvlugtxgt
 HVR"enkgpv
 F J ER"enkgpv
 U [UNQ I
 J VVR

UUJ"ugtxgt"ykvj"öugewtg"eqr {ö"wwkqv{"UER
 UPOR"x3."x4e."x5"ykvj"Gpvgrtkug"OKD
 V\OG"cpf"FC[V\OG"ugtxgt
 U [UNQ I
 Pqvg<"Ugg"**Crrgpfkz**"I"/"KRx8"Kphqt o cvkqp"ht"fgvcknu0

;2/486"XCE."69/85"J | ."207"C"Ocz0" B "342"XCE."2047"C"Ocz0" B "462"XCE
 332/592"XFE."207C"Ocz" B "342"XFE
 5/Rkp"KGE"542"qp"tgct"rcpgn."4" o gvt"nkpg"eqtf"ku"kpenwfgf0

Swcpkv{<"Hqwt"qwrrwu0"V{rg"qh"qwrrwv"ku"ugv"wr"cv"ncevt{"dcugf"qp"ewuvqogt"tgswktgogpvu"cpf"ecp/
 pqv"dg"ejcpi"gf0"V{rgu"ctg<"qp/vk"og"rwnug"tcvgu."c"fkikvcn"vk"og"eqfg"qt"u{pvjguk|gtf0
 p/Vk"og"Rwnug"TCvgu<"
 " Ftkxg<"VVN"kp"vq"72 "qt"TU/454"ngxgnu"*-1/"7X"kp"vq"5m ="Ungy"TCvgt<"52"Xl"wu+0
 " Fwv{"E{eng<"72 ' "gzegr"3RRU"y"jke"j"o"ko"keu"vjg"uvcpfctf"3RRU"Qwrrwv0
 " Tcvg<"Hcevt{"rtgug"vq"3."32."322."3M."32M."322M."3O."7O."qt"32O"RRU."3RRO."3RR4U0
 " Uvcdknkv{<"Ugg"Uvcdknkv{"*Cmcp"fgxkcvkqp+"Vcdng"dgnqy0
 " Cnkipo"gpv*"VVN+<"Ykvj"kp"32"pu"qh"vjg"qvjgt"VVN"qwrrwv"kp"vjku"wpkv*"gzegr"vjg"qrvkqpcn"FFU+0
 " Cnkipo"gpv*"TU/454+<"Vjg"cevwcn"tgcnk|gf"cnkipo"gpv"ku"chwpvkkp"qh"vjg"|gtq/etqukpi"fgnc{"cu
 " urgekŁgf"cdqxg*"rtko"ctkn{"fwg"vq"vjg"TU454"ungy"tcvg"nk"okv+"cpf"vjg"cevwcn"tgekxgt"fgvgevkqp
 " vjtgujqnf0"Vjg"cnkipo"gpv"qh"u{pvjguk|gf"tcvg"rwnug"tg"ockpu"Łzgf"hqnnqykp"u"gej"u{uvgo
 " kpkvcknk|cvkqp."dw"kvu"tgcncvku"jkr"vq"qvjgt"rwnug"qwrrwv"ku"pqp/fgvgt"okpkuvke0""Kh"eqpŁ"iwtgf"ht"vjg
 " 3"RRU"qwrrwv."kv"ecp"dg"ncevt{/rtgug"vq"tkukpi/gfi"gt"hcncnki/gfi"gt"qp/vk"og0
 Fkikvcn"Vk"og"Eqfg<"
 " Ftkxg<"VVN"kp"vq"72 " *FE"ngxgn"ujkhv+"qt"TU/454"ngxgnu0
 " Hqt"ocv<"Wugt/ugngevcng."KTKI/D"*224."225."KGGG/3566"eq"orncpv+."PCUC/58."qt"43590
 " Cnkipo"gpv*"VVN+<"Ykvj"kp"32"pu"qh"vjg"qvjgt"VVN"qwrrwv"kp"vjku"wpkv*"gzegr"vjg"qrvkqpcn"FFU+0
 " Cnkipo"gpv*"TU/454+<"Ugg"Cnkipo"gpv"cdqxg0
 U{pvjguk|gf"TCvgt<"Wugt/ugngevcng."3"RRU"vq"32"ORRU"kp"3"RRU"uvgru0
 Eqppgevgt*"VVN+<"Tgct/rcpgn"DPE"lcem0
 Eqppgevgt*"TU/454+<"Tgct/rcpgn"FD;00
 Rkpqvw*"TU/454+<"Rkp"3"ku"Qwrrwv"C."Rkp"4"ku"Qwrrwv"D."Rkp"5"ku"Qwrrwv"E."Rkp"6"ku"Qwrrwv"F0
 Pqvg<"Ugg"

Swcpvkv{<"6"qt":0
 wvrw"Htgswgpe{<"7"O J|"qt"32"O J|0"
 wvrw"Ngxgn<"-35"fDo."-1/"4"fDo"cv"72 0"
 Jct o qpkeu<">"/67"fDe"cv"72 0
 Uvcdknkv{<"Ugg"Uvcdknkv{*Cmcp"Fxkcvkqp+"Vcdng"dgnqy0
 Ejcppgn/vq/Ejcppgn"kuqncvkqp<"@"-97"fD
 Eqppgevqt<"Tgct/rcpgn"DPE"lcm0
 Pqvg<"Ugg"**Ejcrvgt"6"/"Tgct/Rcpn"Qvrvw"Qrvkpu**"hqt" o qtg"kpht o cvkqp0""Cnuq"tghgt"vq"vjg"**qmvhj.**
opaut"eq o cpf"kp"**Ejcrvgt"5"/"Eqvtn"cpf"Uvcvwu"Eq o cpfu**0
 Rjcug"Pqkug"fDe|J|"B"32"O J|<
J/" VEZQ" " Urwtu"*VEZQ+
 3"" " /92"" " /322" "
 32"" /322"" " /322" "
 327

Ugg" Ejcrvgt"6"/"Qrvkqpcn" Tgct/Rcpgn" Qwvrvwu" hqt" o qtg" kphqt o cvkqp0" Cnuq" tghgt" vq" vjg" qmvh" jopqut" eq o o cpf" kp" Ejcrvgt"5"/"Eqpvtqn" cpf" Uvcvwu" Eq o o cpfu0

EQORQUKVG"ENQEM

Swcpkv{<"2."3"qt"40

V{rg<"Vtcpuht o gt/eqw rngf" eq o rng o gpvct{ /rckt" xkc" 4zTL6: E0"Ukping/gpfgf" xkc" 4zDPE0

Htgswgpe{<"86"mdru0

U{pej tqpk| cvkqp<"Rj cug" nqemgf" vq" vjg" V{ejq" 32" O J |0

Fcvc" Hqt o cv<"Cnn" qpgu0" Wugt/ugngevcdng" hqt" rcknct" xkqncvqkq" *DRX+0

Nkpg \<"332 "pq o kpcn" *eq o rng o gpvct{ "rckt+. "qt" 97 "pq o kpcn" *ukping/gpfgf+0

Rwnug" Uj crg<"Eqphqt o u" vq" KVW/V" I 09250

Rwnug" C o rnkwwfg<"506X" r m" kpvq" 355 . "502X" r m" kpvq" 332 . "406X" r m" kpvq" 97 0

O VKGILkwgtl Ycpfgt<"Eqphqt o u" vq" KVW/V" I 0: 450

Nkpg" Eqfg<"Dkrqct" Tgwtp" Vq" \gtq. "Cnvgtpcvg" Octm" Kpxgtukq" *COk+. "71: "Fvw{ "E{ eng0

" Wugt/ugngevcdng" hqt" 86mee" COk" ykvj" pq" DRX. "86mee" COk" ykvj": "m J | "DRX."

" qt" 86mee" ykvj": "m J | "DRX" cpf" o kuukpi" DRX" cv" 622" J |0

Cnct o "Eqfg<" Wugt/ugngevcdng" hqt" DRX" qhh" *CKU+" cv" Oclqt" *Dnwg+" Cnct o. "qt" DRX" cny c{ u" qp0"

" Cnn" |gtqu" *NqU+" cv" Etkvkecn" *Tgf+" Cnct o 0

Eqppgevqt<"TL/67" uv{ ng" o qfwnct" lcem" *TL6: E/eq o rcvkdng+. "3" rgt" qwvrvw. "qt" DPE" *ukping/gpfgf+0

TL6: E" Rkpqww<" Rkp" 6" ku" Enqem" Qww" Tkp i "*/+0" Rkp" 7" ku" Enqem" Qww" Vkr" */+0"

G3"ENQEM"QWVRWV

Swcpkv{<"2."3"qt"40

V{rg<"Vtcpuht o gt/eqw rngf" eq o rng o gpvct{ /rckt" xkc" 4zTL6: e" qt" 3zFD; O0"Ukping/gpfgf" xkc" 4zDPE0

Htgswgpe{<"4026: "Odrul0

U{pej tqpk| cvkqp<"Rj cug" nqemgf" vq" vjg" V{ejq" 32" O J |0

Fcvc" Hqt o cv<"Cnn" qpgu0" Wugt/ugngevcdng" hqt" Wphtc o gf. "Fqwdng/htc o g" qt" ETE6" Ownvk/htc o g0

Nkpg \<"342 "pq o kpcn" *eq o rng o gpvct{ "rckt+. "qt" 97 "pq o kpcn" *ukping/gpfgf+0

Rwnug" Uj crg<"Eqphqt o u" vq" KVW/V" I 09250

Rwnug" C o rnkwwfg<"502X" r m" kpvq" 342 . "404X" r m" kpvq" 97 0

O VKGILkwgtl Ycpfgt<"Eqphqt o u" vq" KVW/V" I 0: 450

Nkpg" Eqfg<"Dkrqct" Tgwtp" Vq" \gtq. "Cnvgtpcvg" Octm" Kpxgtukq" *COk+

" *Kfgpvkecn" vq" J FD5" hqt" cmm" qpgu" fcvc0+

Cnct o "Eqfg<" Wugt/ugngevcdng" hqt" Cnct o "Kpfkecvkq" Uki pcn" *CKU+."

" qt" Uvcvwu" U{pe" Oguuc i kpi" *UUO+" qp" Uc6" vj tqwi j" Uc.: "qt" ppg" cv" Oclqt" *Dnwg+" Cnct o 0

" Cnn" |gtqu" *NqU+" cv" Etkvkecn" *Tgf+" Cnct o 0

Eqppgevqt<"TL/67" uv{ ng" o qfwnct" lcem" *TL6: E/eq o rcvkdng+. "3" rgt" qwvrvw. "qt" DPE" *ukping/gpfgf+0

TL6: E" Rkpqww<" Rkp" 6" ku" Enqem" Qww" Tkp i "*/+0" Rkp" 7" ku" Enqem" Qww" Vkr" */+0"

V3"ENQEM"QWVRWV

Swcpkv{<"2."3"qt"40

V{rg<"Vtcpuht o gt/eqw rngf" eq o rng o gpvct{ /rckt0

Htgswgpe{<"30766" Odrul0

U{pej tqpk| cvkqp<"Rj cug" nqemgf" vq" vjg" V{ejq" 32" O J |0

Fcvc" Hqt o cv<"Cnn" qpgu0" Wugt/ugngevcdng" hqt" Wphtc o gf. "F6" Uwrghtc o g" *UH+

" qt" ETE8" Gzvpgfgf" Uwrghtc o g" *GUH+0

Nkpg \<"322 "pq o kpcn0

Rwnug" Uj crg<"Eqphqt o u" vq" KVW/V" I 09250

Rwnug" C o rnkwwfg<"502X" r m0

O VKGILkwgtl Ycpfgt<"Eqphqt o u" vq" CPUK" V3" 323" cpf" KVW/V" I 0: 460

Nkpg" Dwknf/ Qww<" Wugt/ugngevcdng" hqt" u j qtv" j cwn" *FUZ/3" 2/877" hv0

Nkpg" Eqfg<"Dkrqct" Tgwtp" Vq" \gtq. "Cnvgtpcvg" Octm" Kpxgtukq" *COk+

" *Kfgpvkecn"vq"D: \U"qt"RFG"ykvj"cm"qpgu"fcvc0+
 Cncto"Eqfg<"Wugt/ugngevcng"hqt"Cncto"Kpfkecvkqp"Ukipcn"CKU+."
 " qt"Uvcywu"U{pe"Oguucikpi"*UUO+."qt"pqpg"cv"Oclqt"*Dnwg+"Cncto0
 " Cnn"|gtqu"*NqU+"cv"Etkvecn"*Tgf+"Cncto0
 Eqppgevqt<"TL/67"uv{ng"oqfwnc"lcem"TL6:E/eqo rcvkdng+."3"rgt"qwwrvw0
 "Rkpqvw<"Rkp"o"ku"Enqem"Qwv"Tkpi"*/+0""Rkp"7"ku"Enqem"Qwv"Vkr"*/+0""



CNCTO"TGNC["QWVRWVU
 Swcpkv{<"2"qt"50
 V{rg<"Hqt o"E0
 Tcvkpi<"972"oC"B"64XCE182XFE0
 PE"Eqpvcev<"Enqugf"hqt"cncto/cevkg"eqpfkvkqp0
 PQ"Eqpvcev<"Enqugf"hqt"cncto/kpcevkg"eqpfkvkqp0
 Okpqt"Cncto<"Cevkxg"cv"okpqt"enqem"hcwnvu0
 Oclqt"Cncto<"Cevkxg"cv"o clqt"enqem"hcwnv"*Dnwg"Cncto+0
 Etkvecn"Cncto<"Cevkxg"cv"enqem"qrgtcvkqpcn"hcwnv"*Tgf"Cncto+0
 Eqppgevqt<"FD;"Hgocng0
 Rkpqvw< 3" Okpqt"PE
 " " 4" Okpqt"PQ
 " " 5" Oclqt"EQO
 " " 6" Etkvecn"PE
 " " 7" Etkvecn"PQ
 " " 8" Okpqt"EQO
 " " 9" Oclqt"PE
 " " : " Oclqt"PQ
 " " ; " Etkvecn"EQO

TVVG"Fktgevkg";;171GE
 " " " " Nqy"Xqncig"Fktgevkg"951451GE
 " " " " GOE"Fktgevkg";;15581GE
 " " " " Ykvj"Cogpfogpv";;518:1GE

Uchgv{< " " GP"82;72-3;;;4."C3.C4<3;;;5."C5<3;;;7."C6<3;;;9."C33<3;;;
 GOE< " " GP"77246<3;;;"y1"C3<4222"cpf"C4<4225."GP83222/5/4<4222.
 " " " " GP83222/5/5<3;;;7"y1"C3<4223."GP77244<3;;;"Encuu"C.
 " " " " XEEK"*Crtn"4226+"Encuu"C."HEE"Rctv"37"Uwdrcvtv"D"Encuu"C.
 " " " " KEGU/225"Encuu"C



DECLARATION OF CONFORMITY

(According to ISO/IEC GUIDE 22 and EN 45014)

Manufacturer's Name: EndRun Technologies



Manufacturer's Address: 1360 North Dutton Avenue, Suite 200
Santa Rosa, CA 95401, U.S.A.

DECLARES THAT THE PRODUCT

Product Name: (1) Network Time Servers and (2) Time & Frequency Standards

Model Number: [REDACTED]

[REDACTED LINE]

[REDACTED LINE]

[REDACTED LINE]

[REDACTED LINE]

[REDACTED LINE]



