Telebit WorldBlazer Configuration
Values for Reliable Operation

This presents some starting information for reliable operation calling or answering, some registers you might want to adjust, and some registers you might want to examine.

Base setup

This base setup will answer incoming calls at 300-2400, v.32, v.32bis and PEP rates, with error correction and compression if offered by the calling modem. For outgoing calls the modem will connect in the first offered mode, or **S50** can be set. No other registers need to be set for dialout. The serial rate remains fixed on all calls, so it works ever with broken versions of *getty* and with V.4 *ttymon* as well.

Starting from the F9 default set, using hardware flow control.

AT&F9	Factory config for computer with HW flow control
Q2	Quiet on incoming calls, show status when dialing
T	Use tone dialing by default
X1	Report connect protocol speed
&D3	Reconfigure back to powerup at end of call (*reliability*)
&S3	Rational behavior of the DSR line
S2=255	Don't allow callers command mode (*security*)
S51=5	Lock DTE (serial port) at 19.2k (*reliability*)
S59=15	Report error correction, compression, and DTE speed on CONNECT
S61=1	Enter command mode on BREAK.
S41=2	Timeout after 12 min idle time (*reliability*)
S92=1	Put PEP tones last in answer sequence

Useful read-only registers

S70	Transmit modulation rate
S72	Receive modulation rate
S74	Link protocol stats for EC modes
S78	Line quality, range 0..100

Dialin control

S0=*n*	*n*=1 to allow dialin, otherwise zero.

Dialout at forced connect speeds or protocols

Normally on dialout the modem will connect at the speed offered by the answering modem. If you need to force connect using a particular speed or protocol, set **S50** to a value as shown below.

Set **S50** to one of these speeds and *do not save it!!*

1	300 baud	6	V.32 (9600)
2	1200 baud	7	V.32bis (14400)
3	2400 baud (V.22bis)	255	PEP or TurboPEP (18/22k)

Remote access enable

S45=1	Access with passwd
	Note: when calling out to modify a remote modem, set **S45=255** and **S50=255** (for PEP)
~U	Set password (default PEP)

Security

S46=*n*	n = 0, normal operation
	n = 1, caller must enter password and modem will dial back
~N*n*=#*pwd*	On dial out, you can call a site with **ATD*pwd*** instead of the full number
	On dial in, you must enter ***pwd*** when prompted. The modem will then dial back to the number.
	Ex: ~N1=15183833834\IFSINTL\
	This is the standard dialback, add country code if needed
~L	List the dialing directory.

Possible DTE (serial port) speeds

S51	DTE speed	**S51**	DTE speed	**S51**	DTE speed
0	300	43	12000	9	115200
1	1200	46	14400	252	auto every AT
2	2400	5	19200	253	autobaud 1st AT only 38.4 on incoming
3	4800	6	38400	254	autobaud on 1st AT only 19.2 on incoming
35	7200	7	57600	255	autobaud on 1st AT only 9600 on incoming
4	9600	8	76800		

Telebit WorldBlazer Setup
for remote sites

Connecting to the modem

The modem setup should be done at 19200 bps. With Kermit this should be done by setting "*set baud 19200*" or with cu using "*-s 19200*" on the command line. After the setup is complete the serial line (DTE) speed will be locked at 19200 bps, to avoid dialin problems with *getty* or *ttymon* implementations which do not autobaud reliably. The modem will also use hardware flow control to allow connection to other modems at lower speeds.

Initial setup

```
AT&F9 Q2 T X1 &D3 &S3 S2=255 S51=5 S59=15 S61=1 S41=2 S92=1
```

Allow dialin

```
ATS0=1
```

Allow remote modem configuration

NOTE: this may not be appropriate for some locations

```
ATS45=1
```

Set the modem to use dialback

NOTE: this may not be appropriate for some locations. In the example below, the sequence **USACC** appears; you must replace it with whatever you need to dial to the USA from the country of installation. In some countries it is 0111, but *check*.

```
ATS46=1
AT~N1=USACC5182863834\IFSINTL\
AT~N2=USACC5182832038\IFSINTL1\
AT~L
```

If your country uses pulse dialing...

This command will switch to pulse dialing. Since it uses mechanical parts instead of electronics, it should *not* be used if tone dialing is available.

```
ATP
```

Save the new configuration

```
AT&W
```

Setup of the incoming line (*getty* or *ttymon*)

The incoming line should be set for 19200 bps, hardware flow control, eight bits, no parity.