



ASE DC-Powered Bell 202 Modem

Switch Settings for Both Rack Mount (5008) and Box Mount (5006) Modem

Bold indicates factory settings

Switch	Usage	Notes	Position	Value if ON
SW1	Transmit gain	<ul style="list-style-type: none"> 0 to -31 dB Add values for all switches in the ON position 	1	-1 dB
			2	-2 dB
			3	-4 dB
			4	-8 dB
JP7		JP7	removed	-16 dB
SW3	CD On Delay	<ul style="list-style-type: none"> Delay in setting RS-232 "CD" signal after carrier is detected, 2 to 30 milliseconds Add values for all switches in the ON position At least one switch must be ON 	1	2 msec
			2	4 msec
			3	8 msec
			4	16 msec
	soft-carrier turn-off	<ul style="list-style-type: none"> Soft-carrier turnoff duration, 1 to 15 milliseconds Add values for all switches in the ON position. At least one switch must be ON 	5	1 msec
			6	2 msec
			7	4 msec
			8	8 msec
SW4	RTS/CTS	<ul style="list-style-type: none"> Delay between requesting RTS and granting CTS, 0 to 254 milliseconds or constant If switch 1 is OFF, add values for all switches (2 to 8) in ON position. If all switches are OFF, CTS is constantly enabled 	1	0 msec
			2	2 msec
			3	4 msec
			4	8 msec
			5	16 msec
			6	32 msec
			7	64 msec
			8	128 msec

Jumper Settings for Box Mount (5006) Modem

Bold indicates factory settings

Jumper	Usage	Notes	Jumper	Meaning
JP1	DTR/DSR	<ul style="list-style-type: none"> • Uses DTR as “clear-to-send” signal, instead of CTS • Uses DSR as “request-to-send” signal instead of RTS • Normal mode (RTS/CTS) has no jumpers installed 	1-2	DTR
			3-4	DSR
JP2	Receiver gain	<ul style="list-style-type: none"> • Sets receiver gain to -35 or -45 dB • Exactly one jumper must be installed 	1-2	-45 dB
			3-4	-35 dB
JP3	Receiver squelch	<ul style="list-style-type: none"> • For half duplex mode, adds 156 millisecond delay between end of transmitted message and enabling receiver • Receiver constantly enabled if not installed 	1-2	156 msec
JP4	2W/4W	<ul style="list-style-type: none"> • Selects 2-wire (half duplex) or 4-wire (full-duplex) operation • Exactly 2 jumpers must be installed 	1-2	2-wire
			3-4	
			5-6	4-wire
			7-8	
JP5	Carrier	<ul style="list-style-type: none"> • Selects switched or constant carrier • Remove jumper for switched carrier 	1-2	Constant
JP6	Soft-carrier operations	<ul style="list-style-type: none"> • Installed deactivates 900Hz transmit on incoming carrier detect or at end of transmit time (SW3) • Removed maintains 900Hz through end of transmit time (SW3) regardless of incoming carrier 	1-2	Installed
JP7 adjacent to JP6	Transmit level range selection	<ul style="list-style-type: none"> • If installed, SW1 settings interpreted as 0 to -15 dB • If removed, SW1 settings interpreted as -16 to -31 dB 	1-2	Installed
JP7 near power connector	Earth	<ul style="list-style-type: none"> • Jumper inserted connects (-) power input to (S) shield on terminal block 	1-2	Removed
JP8	Power Supply	<ul style="list-style-type: none"> • Selects input power options, 5V or 12-160V 	1-3	5V
			2-4	
			3-5	12-160 V
			4-6	
JP9	Soft-carrier enable	<ul style="list-style-type: none"> • Enables/disables 900Hz shut-off. Currently, the 900Hz shutoff must be selected 	1-3	Disables
			2-4	
			3-5	Enables
			4-6	

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			3-4	DTR
JP2	Receiver gain	<ul style="list-style-type: none"> • Sets receiver gain to -35 or -45 dB • Exactly one jumper must be installed 	1-2	-45 dB
			3-4	-35 dB
JP3	Receiver squelch	<ul style="list-style-type: none"> • For half duplex mode, adds 156 millisecond delay between end of transmitted message and enabling receiver • Receiver constantly enabled if not installed 	1-2	156 msec
JP4	2W/4W	<ul style="list-style-type: none"> • Selects 2-wire (half duplex) or 4-wire (full-duplex) operation • Exactly 2 jumpers must be installed 	1-2	2-wire
			3-4	
			5-6	4-wire
			7-8	
JP5	Carrier	<ul style="list-style-type: none"> • Selects switched or constant carrier • Remove jumper for switched carrier 	1-2	Constant
JP6	900Hz turn-off	<ul style="list-style-type: none"> • Installed deactivates 900Hz transmit on incoming carrier detect or at end of transmit time (SW3) • Removed maintains 900Hz through end of transmit time (SW3) regardless of incoming carrier 	1-2	Installed
JP7	Transmit level range selection	<ul style="list-style-type: none"> • If installed, SW1 settings interpreted as 0 to -15 dB • If removed, SW1 settings interpreted as -16 to -31 dB 	1-2	Installed
JP9	Soft-carrier enable	<ul style="list-style-type: none"> • Enables/disables 900Hz shut-off. Currently, the 900Hz shutoff must be selected 	3-5	Enable
			4-6	
			1-3	Disable
			2-4	