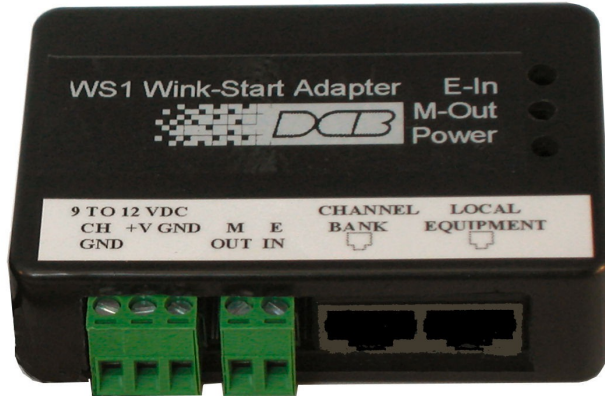




## WS1 - Wink Start Adapter



### FEATURES

- External Wink Start function
- DTMF wait selectable 2, 3, 4 or 5 seconds
- Wink pulse selectable 200 or 500 ms
- RJ45 pass through
- E&M on RJ45 and separate screw connector
- Straight-through B-Side E&M wiring, Type 5

### DESCRIPTION

The WS1 is a wink-start adapter for channel bank **Type 5** E&M ports. The WS1 is used when wink start is not supported on either the channel bank E&M board or the attached user equipment, but wink-start is required by equipment remotely connected via T1 or E1.

With wink start call processing, the E-lead out of the channel bank Type 5 E&M port goes off hook, closing a contact to chassis ground. In response to this E-lead change, the WS1 closes the M-lead for a few hundred milliseconds, then goes open. The momentary closure is a “wink”. The M-lead stays open for several seconds, during which time DTMF digits are typically sent out the channel bank over the receive pair audio leads, RJ45 pins 3 and 6. After the DTMF wait time, the M-lead closes and stays closed until the far end releases the E-lead, signaling on hook, the end of a phone call.

### DIP Switch Options:

The WS1 has an 8-position DIP switch to set the wink start pulse length and the DTMF wait period. S1 is inside the enclosure, accessed by opening the case.

Function	S8	S7	S6	S5	S4	S4	S2	S1
DTMF Wait	C	C	C	x	x	x	x	C
2 sec								
3 sec	O	C	C	x	x	x	x	C
4 sec	C	O	C	x	x	x	x	C
5 sec	C	C	O	x	x	x	x	C
Wink-Start								
200 ms	x	x	x	C	x	x	x	C
500 ms	x	x	x	O	x	x	x	C
Normal	x	x	x	x	x	x	x	C
Factory Test	x	x	x	x	x	x	x	O

C = Closed

O = Open

x = do not care

Default = all closed

### How to Order:

Part #	Description	Price
WS1	Wink-start adapter with 9 VDC power supply	\$93

**LED Indicators:**

There are 3 status LEDs on the right edge of the board. On power up, all 3 flash on momentarily. After power up only the Power LED is on prior to E&M activity.

(TOP) ON - E input grounded (off-hook)
(MID) ON - M output grounded (off-hook)
(BOT) Power LED

**Note: Straight through RJ to RJ wiring requires B-Side Type 5 E&M cards.**

**Power and E&M IO connectors:**

NOTE: The green 2-pin E&M IO connector is not used when an RJ45 cable connects the channel bank to the WS1.

Power Connector	E&M I/O Connector
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Pin 1	Pin 2	Pin 3	Pin 1	Pin2
Channel Bank Chassis Ground	+ VDC 9 to 12 VDC	- VDC Power Supply Ground	M - Out	E - In

**Primary E&M Connectors:**

The RJ-45 connectors pass-through all pins except the M-lead output on RJ45 pin 2. The pins are numbered left to right.

Channel Bank (left side RJ45)	Pin	User Equipment (right side RJ45)
SB	1	SB
<--- M - out	2	M - no connection
RING 1 --->	3	RING 1 --->
<--- RING	4	<--- RING
<--- TIP	5	<--- TIP
TIP 1 --->	6	TIP 1 --->
E - in --->	7	E
SG	8	SG

NOTE: The channel bank E&M port must be set for TYPE 5. The WS1 is wired for a straight through cable between the WS1 and a channel bank E&M card wired as **B-side**.

The left side RJ45 connector is for the channel bank E&M card. The local equipment connects to the right hand RJ45 connector. There **MUST** be an external wire from the channel bank chassis ground to PIN 1 on the 3-pin Power connector.

**SPECIFICATIONS**

1" x 2.2" x 3.35"

9 to 12 VDC

AC to 9 volt adapter supplied with unit

90 ma, less than 1 watt



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