



TOSUN-TC113

User Manual

tosunai.com



Product Features & Interface Overview

Product Name	Channel





1. Introduction

1.1. Technical Specifications

Device Specifications

Parameter	Description
	± ±

CAN/CAN FD Specifications

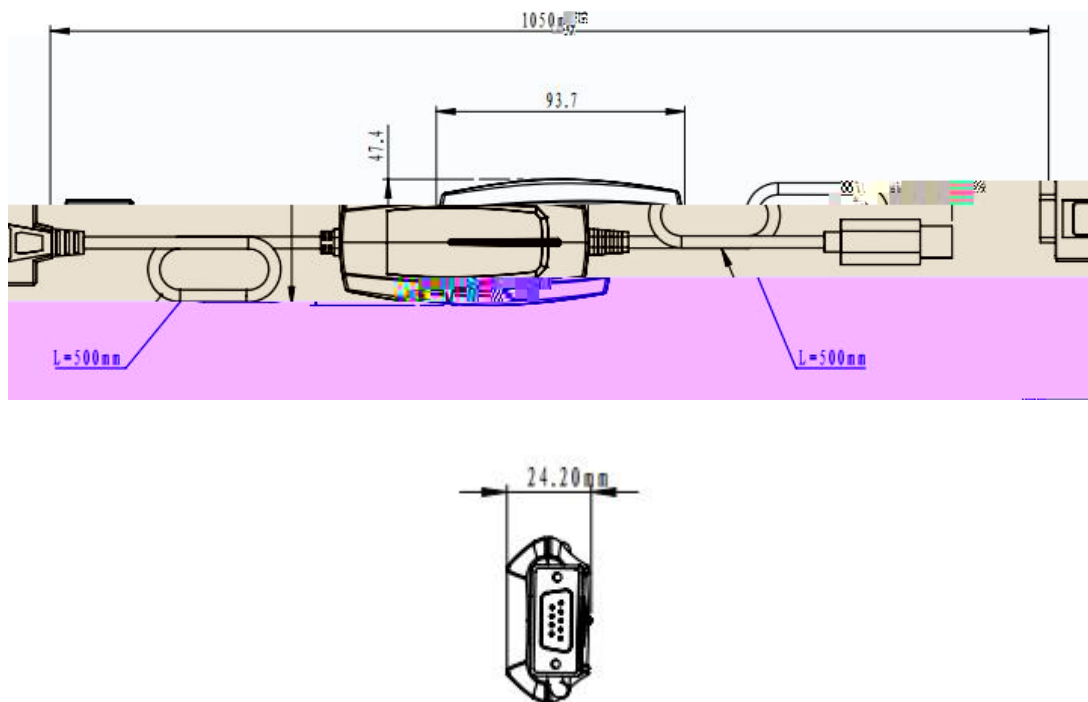
Parameter	Description

1.2. Electrical Specifications

Power Characteristics

Parameter	Condition	Min	Typ.	Max	Unit
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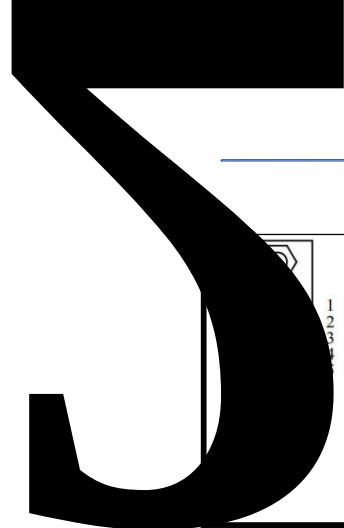
Mechanical Dimensions



1.3. Pin Definition

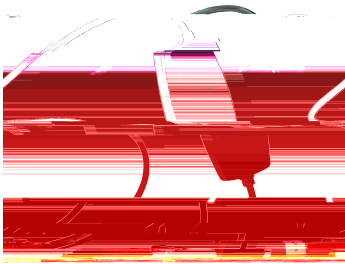
CAN FD DB9 Interface (Male)

DB9 Pin	Channel	Pin	Definition



 1 2 3 4			

1.4.

TC113 Main Device	1		Standard
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2. Applic

2.1. Driver Installation

2.1.1. Environment Dependencies

2.1.2. Driver Installation Steps

```
tosun@tosun-HP-ProBook-455-15-6-inch-G9-Notebook-PC:~/Desktop/TC113/TC113/00_user$ ls
socket_can.c  socket_drv  TOSUN-SOCKET_CAN使用指南_V1.0.0.docx  TOSUN-TC113用户手册_V1.0.0.docx
tosun@tosun-HP-ProBook-455-15-6-inch-G9-Notebook-PC:~/Desktop/TC113/TC113/00_user$
```

```
tosun@tosun-HP-ProBook-455-15-6-inch-G9-Notebook-PC:~/Desktop/TC113/TC113/00_user/socket_drv$ make install
Installing kernel module!..
[✓] Installed. Load with: sudo modprobe tosun_socket_can
tosun@tosun-HP-ProBook-455-15-6-inch-G9-Notebook-PC:~/Desktop/TC113/TC113/00_user/socket_drv$
```

```
[230843.208382] input: TOSUN_TOSUN_HS_CANED2_SOCKETCAN_TC113 devices/pci0000:00/0000:00:08:1/0000:04:00:3/usb/L1-2/L1-2.1/0003:0003:0000:0000/input/input96
E:1002.004A/input/input96
[230843.221233] tosun_socket_can 0003:389E:1002.004A: input_hidraw0: USB HID v1.11 Gamepad [TOSUN]
[230843.221233] tosun_socket_can 0003:389E:1002.004A: input_hidraw0: USB HID v1.11 Gamepad [TOSUN]
```

```
tosun@tosun-HP-ProBook-455-15-6-inch-G9-Notebook-PC:~/Desktop/TC113/TC113/00_user/socket_drv$ ip link show
1: lo: <LOOPBACK,UP,LOWER UP> mtu 65536 qdisc noqueue state UNKNOWN mode DEFAULT group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
2: enp1s0: <BROADCAST,MULTICAST,UP,LOWER UP> mtu 1500 qdisc fq_codel state UP mode DEFAULT group default qlen 1000
    link/ether 08:00:27:62:60:12 brd ff:ff:ff:ff:ff:ff
Link/can
tosun@tosun-HP-ProBook-455-15-6-inch-G9-Notebook-PC:~/Desktop/TC113/TC113/00_user/socket_drv$
```

2.2. Usage Example





3. Reference Document

TOSUN-SOCKET_CAN User Guide_V1.0.0

4. Inspection and Maintenance

Power Environment Inspection

Item	Check Content	Standard/ Range	Action/Measure

Contamination & Protection Check



Item	Check Content	Standard/ Range	Action/Measure
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[illegible]

Age Group	Percentage
18-24	~10%
25-34	~35%
35-44	~25%
45-54	~20%
55-64	~15%
65-74	~10%
75-84	~5%
85+	~2%

Age Group	Don't know	No	Yes	Probably yes	Probably no
18-24	10%	10%	38%	22%	20%
25-34	10%	10%	44%	22%	14%
35-44	10%	10%	38%	22%	20%
45-54	10%	10%	38%	22%	20%
55-64	10%	10%	38%	22%	20%



Figure 6

Diagram illustrating the proposed mechanism of action of the novel anti-epileptic drug (AED) in modulating neuronal excitability. The diagram shows a neuron with various ion channels and receptors. The AED is shown interacting with the voltage-gated sodium channel (Na_v), which is responsible for initiating and propagating action potentials. The AED binding site is located near the extracellular domain of the Na_v channel. The AED is shown blocking the channel, preventing the influx of sodium ions (Na⁺) and thereby reducing the frequency and amplitude of action potentials. This leads to a decrease in neuronal excitability and a reduction in seizure activity.

- [Wiederholungsfragen](#) (10 Fragen)
 - [Wiederholungsfragen](#) (10 Fragen)
 - [Wiederholungsfragen](#) (10 Fragen)
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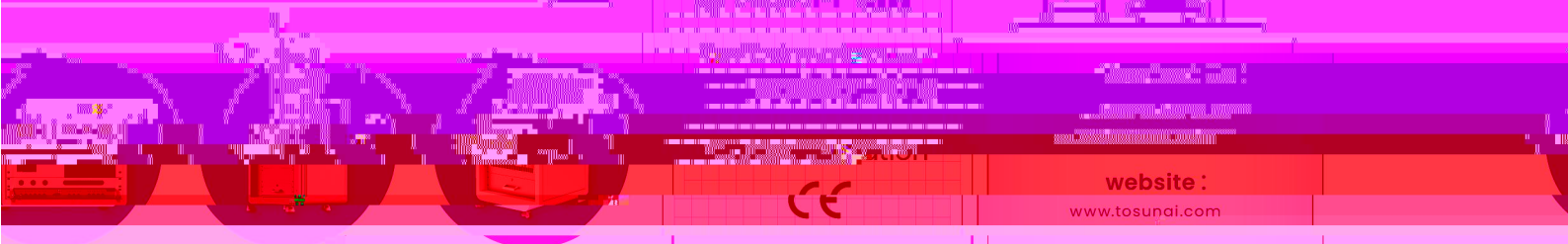
1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

Sequence logo for the 10th position of a 10-nucleotide motif. The y-axis represents information content in bits (0 to 1.5). The x-axis shows the four nucleotides: A, C, G, and T. The 'G' position has the highest information content, with 'G' being the dominant nucleotide at approximately 1.4 bits. 'A' and 'T' also show significant information content, while 'C' is the least informative.

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