BLOCK N — Ethernet W5500 on SPI2 (PB13/14/15 + CS PB12, RST PA15, INT PB2). 3V3_ETH from SYS5V buck U12 — NR

BLOCK O — I/O expander: gauge + RGB status (E-1.1). PCF8574 SINKS: LEDs common-anode 3V3.

BLOCK M — customer serial: SC16IS752 @0x4D (A1=A0=GND; 0x48 would collide with TMP102). ChA=RS-485 auto-DE (EFCR RS485 invert per panel); ChB=RS-232+TTL no? (do NOT use both).

Last Review: Dr. Leopoldo Rodriguez Salazar	
Helgen Servicios Especializados	
Sheet: /	
File: hbox-watchdog-v4.kicad_sch	
Title: EINARBoard HBox	
Size: A1	Date: 2026-07-07
KiCad E.D.A. 10.0.4	**Rev: 1.1**
	Id: 1/1