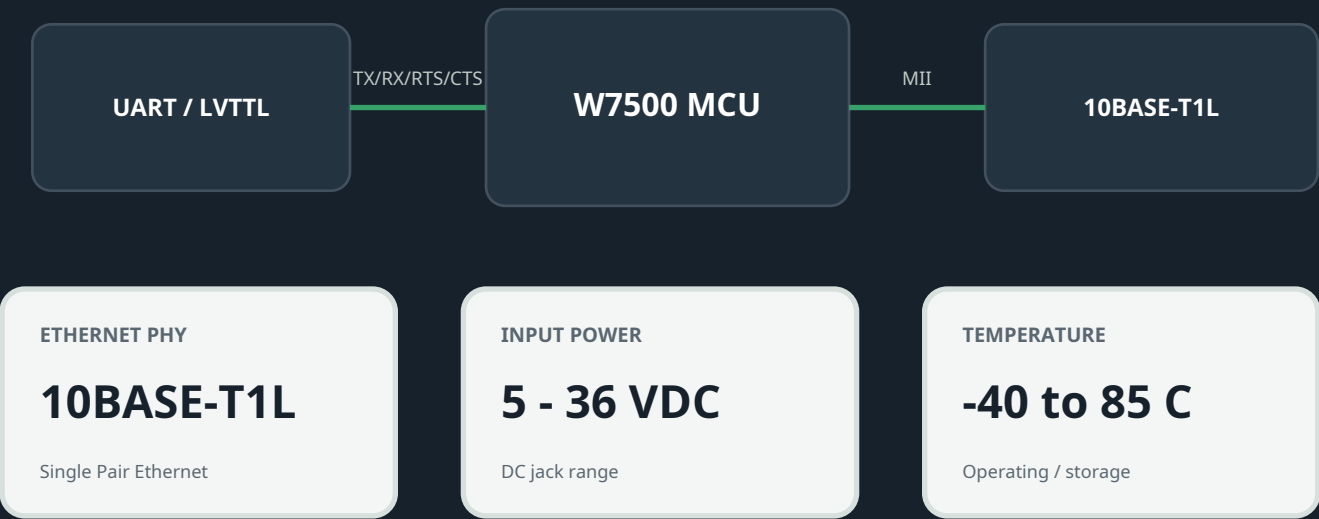


WIZ750SR-T1L

Serial-to-10BASE-T1L Ethernet Module



KEY PLATFORM DATA

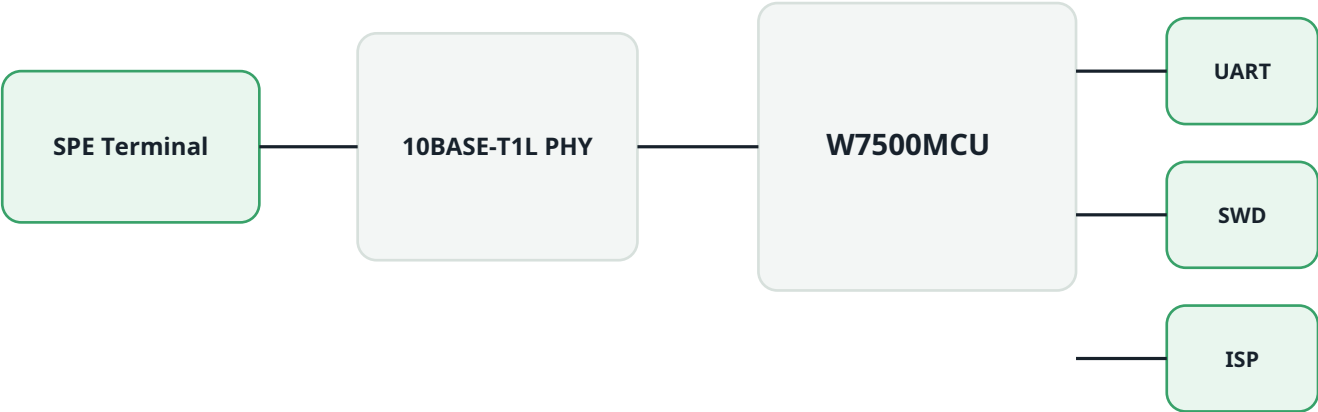
ARM Cortex-M0	48 MHz max
8 hardware sockets	32 KB socket SRAM
Serial interface	Up to 230 kbps
Board size	100 x 50 x 1.6 mm

System Overview

Core architecture and key hardware specifications

Category	Specification
MCU	W7500 / ARM Cortex-M0 / up to 48 MHz / 128 KB Flash
Memory	Flexible SRAM; 32 KB socket SRAM; 8 independent sockets
Protocols	TCP, UDP, ICMP, IPv4, ARP, IGMP, PPPoE
PHY	10BASE-T1L Ethernet PHY
Serial	TXD, RXD, RTS, CTS, GND; 7/8-bit; parity none/odd/even; flow control none, RTS/CTS, XON/XOFF
Serial speed	Up to 230 kbps
Connectors	2.54 mm 6x2 pin header (data); 3.81 mm 3-pin terminal block (SPE)
Power	5 - 36 VDC via DC jack; 3.3 V LVTTTL data line
Dimensions	100 x 50 x 1.6 mm
Temperature	-40 to 85 C

Functional Block Diagram



Electrical & Connector Data

Condensed operating, LED and connector information

Symbol	Parameter	Min	Typ	Max	Unit
Power	DC jack input	5.0	-	36	V
VCC	W7500 operating voltage	3.135	3.3	3.465	V
fCLK	CPU clock	0	-	48	MHz
VIO	I/O tolerance	V _{ss} -0.3	3.3	3.6	V
Tstg / TA	Storage / ambient	-40	-	85	C

Status LEDs

LED	Function
LD1	Link
LD2	TCP connection
LD3	Power
LD4	Application running
LD5	User config
LD6	User config

Power Source Selection

Source	Input	J1	J9
DC jack	5-36 V	1-2 short	NC
J11 VCC	3.3 V	NC	2-3 short
J11 VCC	5-36 V	1-2 short	1-2 short

Serial Port J11

Pin	Signal
1	nRESET
2	VCC
3	UART0 RX
4	VCC
5	UART0 CTS
6	Factory Reset
7	UART0 TX
8	HW_TRIG / DSR / TCP
9	UART0 RTS
10	DTR / PHY LINK
11-12	GND

SPE Terminal J2

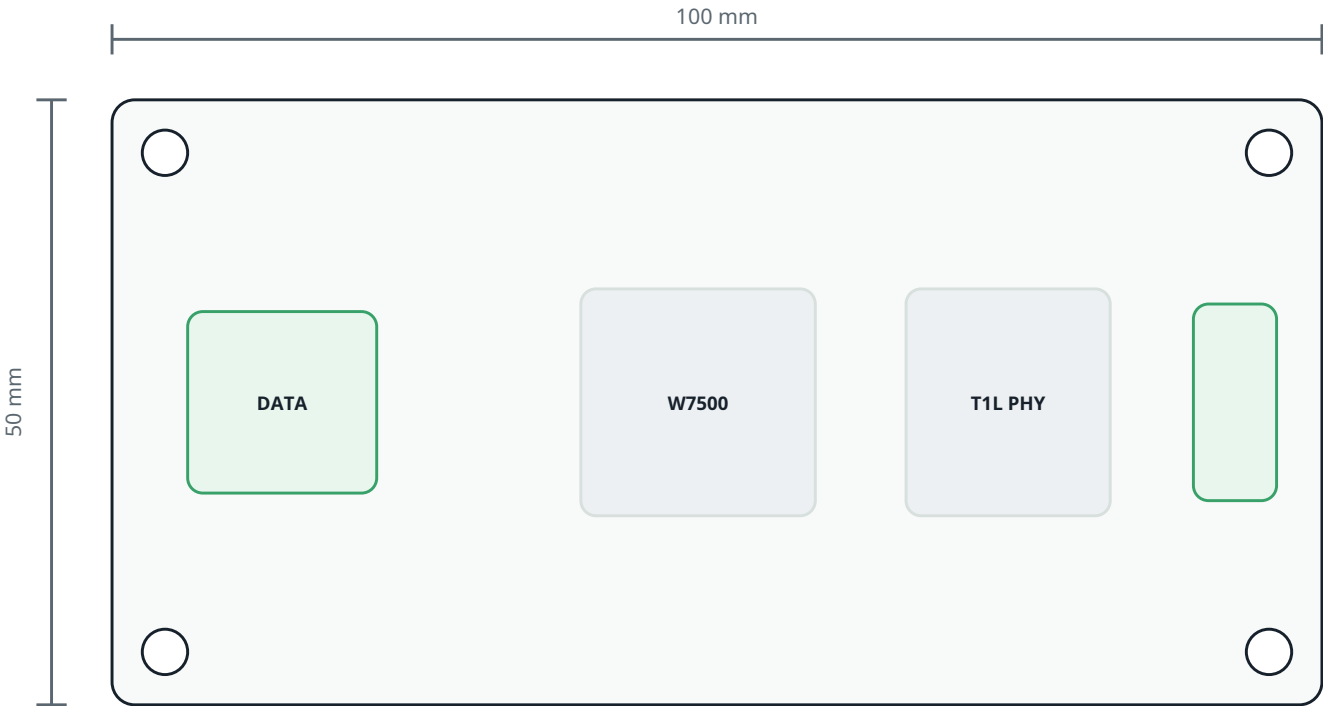
Pin	Signal	Meaning
1	P	Positive pair
2	N	Negative pair
3	Earth	Earth ground

Service Interfaces & Mechanics

Boot, debug and mechanical reference

Header	Pin / signal summary
J7 APP/BOOT	APP_BOOT (active low), GND
J8 BOOT	BOOT (active high), 3V3
J10 SWD	3V3, SWDIO, SWCLK, nRESET, GND
J6 ISP/DEBUG	3V3, BOOT, UART TX, UART RX, nRESET, GND

Mechanical Envelope



Board thickness: 1.6 mm

Mounting-hole drawing is simplified. Use the manufacturer mechanical drawing for exact coordinates.

Design files available from WIZnet:

Schematic / artwork (Altium, PDF), STEP model, and part list (Excel, PDF).