■ NB-IoT NETWORK DIAGNOSTIC REPORT

Device Information	
IMEI:	351469520164031
Report Time:	2026-02-14 02:27:09
Report Number:	R4031-02.27

Overall Status	■ FAILED

■ Layer-by-Layer Analysis

Layer	Component	Status	Details
1	SIM Card	■ PASS	Ready
1	IMSI	■■ N/A	Not visible (may be normal)
2	Registration	■ FAIL	Searching (2,2)
3	PDP Context	■ FAIL	NETOPEN failed
4	UDP Socket	■ FAIL	CIPOPEN failed
4	Data Send	■ FAIL	No data sent
4	Server ACK	■■ NONE	No acknowledgment

■ Server Configuration

Setting	Value
APN	IP

■ Root Cause Analysis

Failure Point	Layer 2: Registration
Diagnosis	Modem is searching for network but cannot register (CEREG: 2,2)

■ Recommended Actions

• Move device to location with better NB-IoT coverage
• Check if area has NB-IoT network coverage
• Verify SIM is activated for NB-IoT service
• Wait 2-3 minutes for network registration
• Check antenna connection
• Signal quality unknown