

Cloud Connectivity Device

CL-55



Intelligent Farm Connectivity

The CL-55 is a multifunctional cellular telematics device designed for fleet monitoring and connectivity in key applications, including autosteering correction services and grain cart harvest data upload. It provides fleet tracking and machine metric monitoring for many agricultural machines, automatic data upload to Topcon Agriculture Platform (TAP), and position correction service access via NTRIP or an optional RTK radio.

Cloudlynk connectivity devices serve as TAP's backbone. This cloud-based farm management system manages mixed-fleet data seamlessly from the field – collecting, analyzing, visualizing, and delivering actionable insights. Though compatible with all TAP subscriptions, the CL-55 is required to use TAP Fleet or the Grain Cart add-on.

SPECIFICATIONS		
Microprocessor	ARM Cortex A7 – iMX6 UL (NXP)	
Memory	RAM	512 MB
	eMMC	8 GB
Ports and Connector	Serial Port 1 x RS232 up to 115,2 kbps (on main connector) CAN 4 independent lines (J1939) Connector Main: JAE 18 pin connector LAN Connector: M8 3pin connector for BRR and M8 4pin connector standard Ethernet Fakra: D-code for cellular antenna; C-code for GNSS antenna; L-code for diversity antenna; RP-SMA for Wi-Fi and Bluetooth SMA Connector: Standard radio antenna connector (Only available on enabled CL-55 variants)	
Input/Output	3 in + 2 out programmable I/O analog/digital lines	
Key-on sensing	Level sensitive digital input able to sense the +15V	
Real Time Clock	Yes	
Motion Sensor	3-Axis Accelerometer and Gyroscope	
Modem	Global, CAT 1, LTE, 2G/3G Fallback	
SIM	Embedded SIM-on-chip (Global)	
Antennas (External)	GNSS, Cellular (including diversity) and Wi-Fi and Bluetooth antennas	
GNSS Receiver	GPS L1, GLONASS L1, Galileo E1 and BeiDou B1 Internal LNA – Passive antenna supported; A-GPS; PPS available	
Wi-Fi and Bluetooth	MultiRadio Module with Wi-Fi and Bluetooth: <ul style="list-style-type: none"> • Wi-Fi standard 802.11ac. Backward compatible with 802.11a/b/g/n • 802.11ac PHY data rates • Simultaneous dual-band (2.4/5 GHz) operation • Simultaneous station (STA) and access point (AP) operation with up to 8 clients • Support of Wi-Fi direct 	
LAN	Automotive Ethernet Broad R-Reach and Standard Ethernet Line	
RADIO (OPTIONAL)	RADIO RTK SATELLINE-M3-TR49 radio transceiver module configurable to 410-475 MHz or 902-928 MHz	
Power Supply	8 V – 36 V (ISO7637-0-1-2 compliant) on main JAE 18-pin connector	
Backup Battery	LiFePO4 1500mAh Rechargeable	
Remote Capabilities	Firmware Update	Yes (OTA)
Environmental	Water/Dust Resistance	IP66 and IP67
	Operating Temp. Range	-40°C to 85°C
Certification	RED / CE / ECER10 / FCC / IC / RCM / ANATEL / JRF / JPA / ROHS	
Physical Dimensions	119.5 x 112.5 x 32.2 mm (connectors excluded)	

Specifications subject to change without notice.
 © 2023. Topcon Positioning Systems, Inc.
 All rights reserved. 7010-2279 EU B 02/23