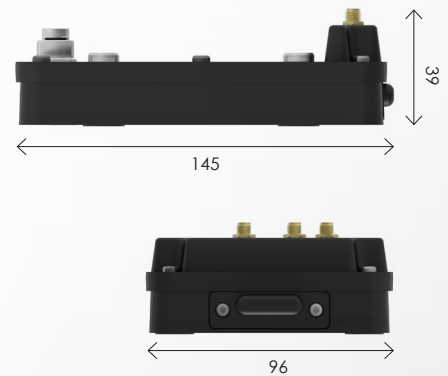




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CrossLink AI GLOBAL WIRELESS ACCESS EXTENSION MODULE

CrossLink AI is a global wireless access module for CrossControl CCpilot displays. It features WLAN, GSM/GPRS modem and GNSS/GPS functionality in a single, compact and sturdy module. It holds radio certification for all major markets and the radio modules used

inside make additional certification possible on request. It is connected to your CCpilot display via USB and you easily add wireless connectivity functions in your system through a full-fledged API for Linux.

Turn for technical specifications »

Application examples CrossLink AI enables a range of wireless connectivity applications for CCpilot displays and main controllers.

ASSET MANAGEMENT

Use CrossLink AI to make operational and diagnostic data for the equipment available from remote. To reduce data traffic cost, use the computing power of CCpilot displays to make analysis on-board and refine the data before transmitting.

POSITIONING

Use CrossLink AI for on-board GIS/mapping applications on CCpilot displays or use position data in your asset management system.

SMART PHONE CONNECTIVITY

Use CrossLink AI for connecting to the vehicle system via Smartphone. You develop your Smartphone app through the LinX Software Suite. An easy way to offer your customers a "My machine" app or offering your Field Service staff an easy way of accessing your vehicle system for fault finding.

Standard models

PART NUMBER	DEDICATED POWER	POWER OVER USB	3G/GNSS	WLAN
C000 138-30	•		•	•
C000 138-34	•			•
C000 138-40		•	•	•

CrossLink AI PRODUCT SPECIFICATIONS

GNSS	
SYSTEM COVERAGE	Concurrent GPS and GLONASS
SBAS	WAAS, EGNOS, MSAS
ACCURACY @ OPEN SKY	<1,5 m. CEP-50

MODEM	
GENERATION	3G
FREQUENCY BANDS	800/850/900/1900/2100MHz@UMTS 850/900/1800/1900MHz@GSM
UPLINK/DOWNLINK SPEED (MBPS)	Up to 14.4/5.76
GPRS/EDGE	Multi-slot Class 12

WLAN	
WIFI	Dual band, 2.4 GHz and 5 GHz, IEEE 802.11 a/b/g/n
MODES	<p>Client - Makes CrossLink AI a client device that can connect to available wifi networks.</p> <p>Access point - Makes CrossLink AI an access point to which other WiFi devices can connect.</p> <p>WiFi direct - Enables CrossLink AI to easily connect with other devices without requiring a wireless access point. (Requires Linux 3.10 or higher.)</p> <p>Modes are controlled in the software application of the host to which CrossLink AI is attached, e.g. a CCpilot or CrossCore device.</p>
DYNAMIC FREQUENCY SELECTION	Master, 11h Slave
CISCO CCX	V2, V4

SENSORS	
ACCELEROMETER	Built-in 3-axis accelerometer, e.g. for detecting collisions, roll-overs or to monitor how a machine is driven.

INTERFACES AND CONNECTORS	
USB	1 x USB 2.0, for connection to CrossControl display or controller. DIN M12 5-pin A-coded female.
POWER SUPPLY	<p>Alt 1: Separate power connector. Voltage range 6-36 VDC, 12 or 24 VDC nominal. DIN M12, 5-pin B-coded male.</p> <p>Alt 2: Included in USB connector. Voltage range 4.75-5.25 VDC, 5 VDC nominal, <u>minimum 10 W</u>.</p>
ANTENNA CONNECTORS	
GNSS/GPS	RP-SMA female
MODEM, RX/TX	RP-SMA female
WLAN	RP-SMA female

SOFTWARE	
SUPPORTED OPERATING SYSTEMS	Yocto based Linux (kernel 3.10+) Ubuntu based Linux (kernel 2.6+).
APPLICATION DEVELOPMENT	Applications developed for CrossControl displays either utilizing LinX Software Suite - an open software application platform based on Qt - or based on Linux operating system images provided with the display.

ENVIRONMENT AND CERTIFICATIONS	
IP CLASS	IP67
EMC CONFORMITY	ETSI EN 301 489-1, -17 and -24 EN 61000-6-2 and EN 61000-6-4 UN ECE regulation10 EN 13309:2010, ISO 14982:2009
LVD CONFORMITY	IEC/EN 60950-1:2006 incl. A1, A2, A11, A12 IEC/EN 60950-22:2006, A11, C1, A11/C1 ANSI/UL 60950-1 CAN/CSA C22.2 No. 60950-1-07
RADIO CERTIFICATIONS	CE/FCC/ETL/CB. Certified for Europe and North America. Additional certification will be added gradually. Contact CrossControl for information on current certification status.
TEMPERATURE RANGE (°C)	Operating: -25 to +70 Storage: -40 to +85

ENCLOSURE	
HOUSING MATERIAL	Reinforced nylon
MECHANICAL INSTALLATION	Either at rear side of display (back-pack) or stand-alone.

SIZE AND WEIGHT	
W x H x D (mm)	145 x 96 x 39
WEIGHT (kg)	Approx. 0.4

crosscontrol

AN ACTUANT COMPANY

Sales contact: sales@crosscontrol.com | General: info@crosscontrol.com | www.crosscontrol.com

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