2027 Requirements — All Classes

A functioning MYLAPS RaceLink device is mandatory in every MotoAmerica competition class. Competitors in any class may use either the RaceLink Pro or the RaceLink Club. This requirement includes Twins Cup and Super Hooligans, which become mandatory RaceLink classes in 2027.

Also new for 2027, every competition motorcycle must have a prominent, rider-visible display of Race Control flag signals. The display may be integrated into the motorcycle dashboard or provided by an approved auxiliary display. A light bar by itself does not satisfy the prominent-display requirement.

The prominent display must show the applicable flag itself or a clearly recognizable combination of colors corresponding to that flag. The system must be positioned so that the rider can readily see the indication while riding in all positions.

RaceLink Options and Subscription

RaceLink Pro — permitted in all competition classes.
RaceLink Club — permitted in all competition classes.
RaceLink Club subscription option — available with a replacement benefit in the event of device damage, subject to the subscription provider's terms and conditions. Confirm the current plan, price and replacement conditions with MYLAPS.
Devices may be obtained through MYLAPS. For current pricing and purchasing information, contact Balton Aulls, Balton.Aulls@mylaps.com, (678) 816-4000.

Display Options and RaceLink Placement

MotoAmerica has tested and approved two auxiliary display options. Approved device information:
T-Dash Mini: https://tmsproducts.com/products/t-dash-mini
T-Dash XL: https://tmsproducts.com/products/t-dash-xl
If you have an alternative auxiliary display, please email jkingham@motoamerica.com for approval.

An auxiliary display arrangement such as the T-Dash Mini can allow the RaceLink unit itself to be mounted under the seat or in another more protected location, reducing its exposure in a crash. Antenna placement, electrical power and all other mounting requirements must still be satisfied.

CAN Bus Connection and Firmware

Superbike, Supersport and Talent Cup motorcycles should have a connection between the RaceLink and the motorcycle CAN bus. The electronics used in other classes may not support CAN bus connection; teams should confirm an appropriate setup with MotoAmerica.
IMPORTANT: Do not connect a RaceLink to the motorcycle CAN bus until MotoAmerica has verified that the required firmware update has been completed. Contact racelink@motoamerica.com for verification or questions about a specific motorcycle, ECU, display, or wiring configuration.

Purpose of the System

RaceLink enables Race Control to send flag conditions and messages to motorcycles around the circuit rather than only at timing loops. GPS positioning also assists Race Direction with live vehicle location, crash response and event operations.

Installation Guidance
Install the GPS antenna with a clear view of the sky.
Place the RF antenna as high as practicable, with clear visibility around the motorcycle.
Mount the RaceLink where ambient temperature does not exceed 60°C / 140°F, and secure it against vibration and crash exposure.
Where CAN bus connectivity is supported and approved, coordinate the wiring and ECU/dashboard communication with MotoAmerica before connecting.

Minimum Flag Indications
The display must support, at minimum, the following Race Control signals: green, yellow, red, checkered, debris, blue, mechanical, and black flags.

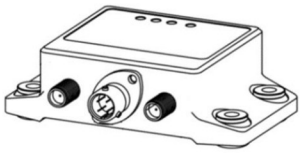
Technical Information and Questions
RaceLink Pro and Club connector configurations differ. Teams should consult the applicable current MYLAPS technical documentation and MotoAmerica-approved wiring instructions. The prior bulletin included Pro Deutsch connector and Club M8 connector pin-out diagrams; do not rely on the older connector drawings without confirming applicability to the device and firmware version being installed.
For questions about eligibility, approved displays, CAN bus connectivity, firmware updates or mounting, contact: racelink@motoamerica.com.

The setup installed on the bike consists of 4 components.
- RaceLink
- RF Antenna
- GPS Antenna
- Cable connection to Can Bus/12v power

General mounting guidelines are as follows:

- Make sure the GPS antenna always has a clear view to the sky
- Make sure the RF antenna is placed as high as possible, having a clear view around the vehicle at all times
- Place the device in an area of the vehicle where the temperature does not exceed 60 °C/140 °F
- Device needs to be connected to a power supply that is still provides power when the engine is switched off
- Device needs to be connected to the bike's CAN Bus and be able to communicate with the ECU/Dash

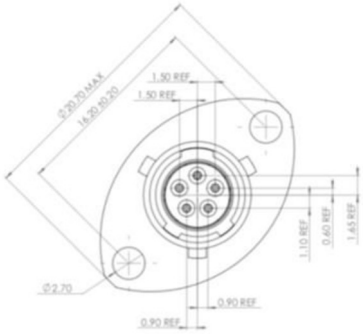
Technical Specifications:



	RaceLink Pro	Racelink Club
Dimensions	75x45x24mm / 3x1.8x1in	85x59.5x24 mm / 3.3x24x1 in
Weight	85g / 0.19lb	129g / 0.26 lbs
Operating voltage range	7 to 18VDC typical 12V	7 to 18VDC typical 12V
Power consumption	1.3W, 110mA@12V	1.3W, 110mA@12V
Back up battery lifetime	Up to 8 hours	Up to 16 hours
Back up battery charging	1:2 ratio, 4 hours for full charge	1:4 ratio, 5 hours for full charge
Operating temperature range	0 to 60 °C / 32 to 140F	0 to 60 °C / 32 to 140F
Humidity range	10% to 90% relative	10% to 90% relative
Positioning	3 concurrent GNSS reception	3 concurrent GNSS reception
Sensitivity	-167dBm, 72 channels	-167dBm, 72 channels
GNSS antenna connection	SMA(F), 3.0V active antenna	SMA(F), 3.0V active antenna
RF Antenna connection	RP-SMA(F)	RP-SMA(F)
RF output	+20dBm@2.4GHz ISM	+20dBm@2.4GHz ISM
IP Rating	IP64	IP64
Can Connector	Deutsch ASU003-05PN	M8 sensor 4p

RaceLink Pro Deutsch connector pin-out

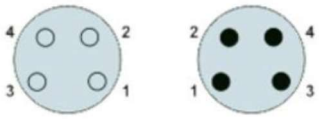
Deutsch ASU003-05PN
P1 = 12VDC
P2 = GND
P3 = CAN L
P4 = CAN H
P5 = (for future use)
Harness side connector:
Deutsch ASU603-0



Racelink Club M8 connector pin-out

M8 Connector

Pin assignments:



Socket, 4-pos. Pin, 4-pos.

M8 PIN	Wire Color	Function
1	Brown	12V
2	White	CAN-L
3	Blue	Signal Ground
4	Black	CAN-H