

# Master 2.36.0

Released 18.04.2024

## New features

### Added "External GSM/GPS module" mode

#### E96(V2)

Support for "External GSM/GPS module" mode has been added to StarLine E96v2 security systems (with serial numbers E96V2 S...) for joint operation with StarLine M66v2 or StarLine GSM+GPS Master 6v2 with firmware version 2.35.0 or higher.

### Added support for parking heater (preheater) control in M66v2

#### M66(V2)

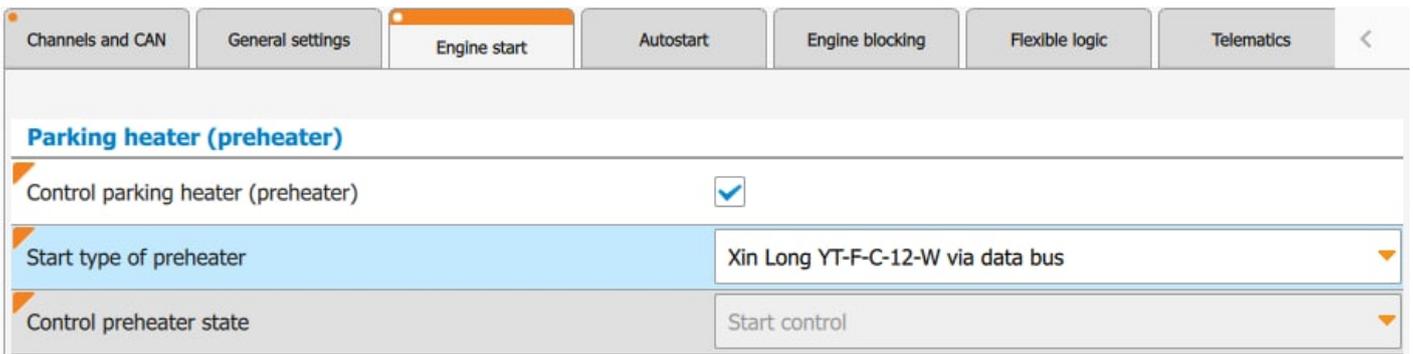
Support for parking heater (preheater) control has been added in tracker M66v2.

The screenshot shows the 'Engine start' configuration page in the StarLine software. The 'Control parking heater (preheater)' option is checked. A dropdown menu is open, showing the 'Start type of preheater' options. The 'Not used' option is selected. Other options include 'Start by impulse, stop by impulse', 'Start by pulse, stop automatic', 'Start by potential', 'CAN/LIN', 'Webasto via data bus', 'Eberspächer via data bus', 'Xin Long YT-F-C-12-W via data bus', and 'A100 via digital bus'. The page also shows other settings like 'Control preheater state', 'Max preheater activating time, sec', 'Preheater operation time, min', 'Activate preheater before remote start', 'Activate preheater before autostart', 'Temperature to activate preheater before autostart / remote start, ° C', 'Temperature to run automatic / remote start, ° C', and 'Temperature to stop preheater, ° C'.

**Control of Xin Long WATER heater (Model YT-F-C-12-W) supported when connected into the cut of signal wire with between timer and heater control unit with an external**

relay. Two wires must be used to connect. On "Channels and CAN" tab, set "A100 parking heater control through external relay" on the green or blue wire and connect it to the negative terminal of external relay coil that control the break in the signal wire. Assign "Xin Long YT-F-C-12-W via data bus (control unit)" on white-black wire and connect it to normally closed (NC) terminal of external relay. Connect common contact to the heater control unit, and normally closed (NC) contact to the timer. On "Engine Start" tab, in the "Parking heater (preheater)" section, enable "Control parking heater (preheater)". For the "Start type of preheater" parameter, select "Xin Long YT-F-C-12-W via data bus".

Setting example:



## Added "Smart comfort" feature

**A90, A90BT, AS90, E96(V2) KZ, E96(V2), GEN7, GEN7(V2), S96(V2)**

Selected "Smart Comfort" features will be activated during remote start and auto start by timer. Supported settings depend on vehicle trim and functions available CAN bus control. The corresponding features must be configured in the CAN interfaces or channels.

Channels and CAN    General settings    **Remote start**    Autostart    Engine blocking    Flexible logic    Telematics    < >

### Smart comfort

Steering wheel heater

Windows and mirrors heater

Seats heater

Seats ventilation

Climate control temperature  CAN-A

Climate control temperature, °C

AUTO mode control  CAN-A

Channels and CAN    General settings    **Remote start**    Autostart    Engine blocking    Flexible logic    Telematics

**RESET CHANNELS**

#### X1 (Main connector)

2.		black-white	Not set	⊖ 0.2 A
3.		black-red	Engine block...	⊖ 0.2 A
4.		grey-black	Not set	⊕
5.		pink	Not set	⊖ 0.2 A
6.		purple	Not set	⊖ 0.2 A
7.		grey	Siren	⊕ 2.0 A
8.		yellow-black	Not set	⊖ 0.2 A
9.		yellow-red	Not set	⊖ 0.2 A
10.		dark blue	Not set	⊖ 0.2 A
12.		yellow-white	Not set	⊖ 0.2 A
13.		green-yellow	Not set	⊖ 0.2 A
14.		yellow	Not set	⊕
15.		dark blue-red	Not set	⊖
16.		orange-white	Not set	⊖
17.		orange-purple	Not set	⊕
18.		dark blue-black	Not set	⊖
19.		orange-gray	Not set	⊖
20.		green	Not set	⊖ 0.2 A

#### X2 (CAN-LIN and Start power module)

1.		orange-white	Not set	
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Parking heater (preheater) control  ?

Parking heater (preheater) stop  ?

Engine start  CAN-A

Starter  CAN-A

Immobilizer data bypass (iKey)  CAN-B

Steering wheel heater  CAN-A

Seats heater  CAN-A

Seats ventilation  CAN-A

Windows and mirrors heater  CAN-A

Horn control  CAN-A

Low beam switch Off  ?

Sunroof closure  CAN-A

i-STOP control  ?

Charge port control  ?

Climate control  ?

Climate control temperature  CAN-A

Channels and CAN | General settings | Remote start | Autostart | Engine blocking | Flexible logic | Telematics | Sensors set

**RESET CHANNELS**

**X1 (Main connector)**

2.		black-white
3.		black-red
4.		grey-black
5.		pink
6.		purple
7.		grey
8.		yellow-black
9.		yellow-red
10.		dark blue
12.		yellow-white
13.		green-yellow
14.		yellow
15.		dark blue-red
16.		orange-white
17.		orange-purple
18.		dark blue-black
19.		orange-gray
20.		green

**X2 (CAN-LIN and Start power modu...**

1.		orange-white
2.		orange

Engine start: simulate brake or clutch pedal (analog)  
 Engine start: PTS button  
 Engine start: start button  
 Engine start: stop button  
 Engine blocking #1 R7\_5 2 A  
 Engine blocking #2 R7\_5 2 A  
 Engine blocking #3 0 A  
 Door open simulation 2 A  
 Trunk unlock 2 A  
 Comfort closure output 2 A  
 Starter protection at autostart 2 A  
 Status output #1 2 A  
 Status output #2  
 Status output #3  
 Status LED  
 Start preheater by analog signal  
 Steering column blocking (SLP)  
 Security status  
 Dashcam power relay control 2 A  
 **Steering wheel heater** X1  
 Windows and mirrors heater  
 Seats heater

## Fixed bugs

No

## Known bugs

No