Quiet Please.
The Show is About
to Begin!

ESU (Electronic Solutions ULM) LokSound Clinic

Metro-North Meeting
March 10, 2018
Scott Russell

1. Decoder Formats / Sizes

1. Decoder Formats / Sizes
2. Downloads

1. Decoder Formats / Sizes
2. Downloads
3. “Full Throttle” Explained

1. Decoder Formats / Sizes
2. Downloads
3. “Full Throttle” Explained
4. Decoder Tester

1. Decoder Formats / Sizes
2. Downloads
3. “Full Throttle” Explained
4. Decoder Tester
5. Decoder Programmer

1. Decoder Formats / Sizes
2. Downloads
3. “Full Throttle” Explained
4. Decoder Tester
5. Decoder Programmer
6. LokPilot Decoders

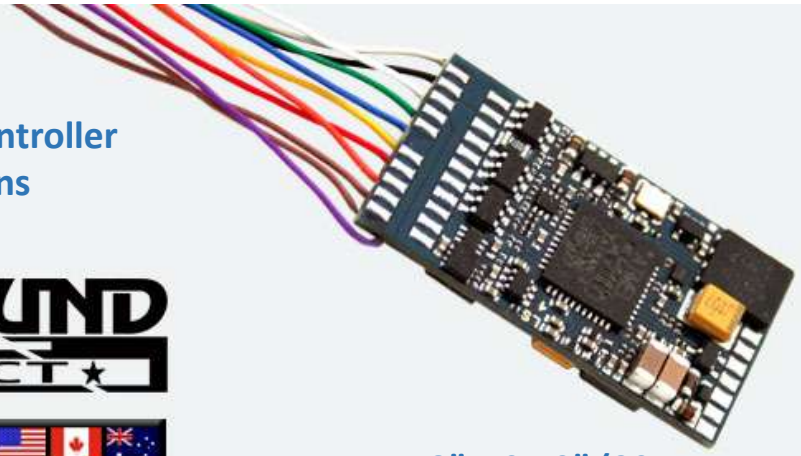
1. Decoder Formats / Sizes
2. Downloads
3. “Full Throttle” Explained
4. Decoder Tester
5. Decoder Programmer
6. LokPilot Decoders
7. Questions

LokSound Select

1.1A Motor Controller
6 Functions

LOKSOUND SELECT

Only Available From ESU LLC (USA)



1.18” x 0.59” (30mm x 15mm)

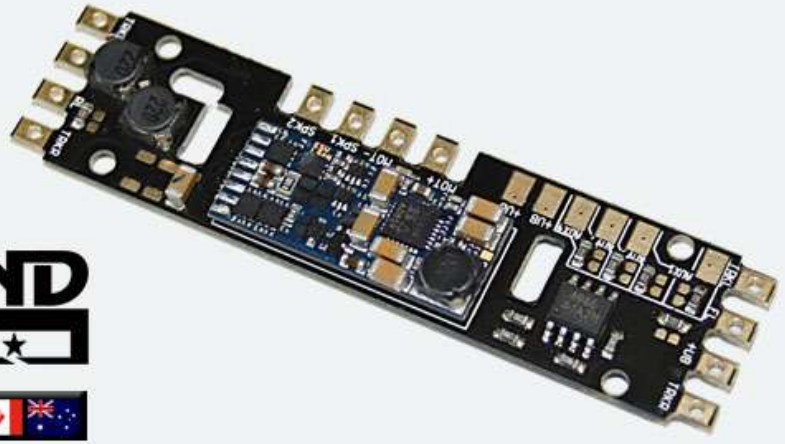
8-Pin NMRA

21MTC

Dual Mode (DCC / DC)

LokSound Select Direct

1.1A Motor Controller
6 Functions



LOKSOUND SELECT

Only Available From ESU LLC (USA)

2.72” x 0.67” (17mm x 69mm)

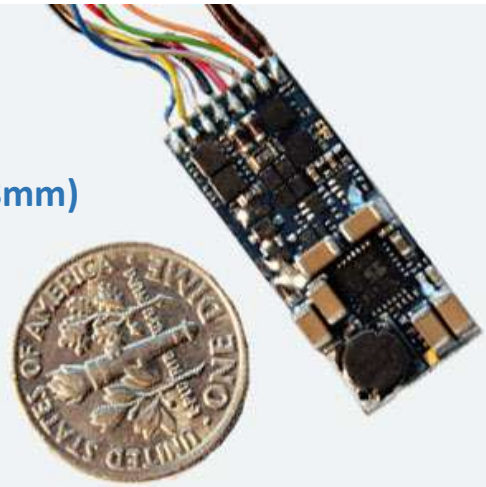
Designed to fit Athearn Genesis, Atlas, Bowser-Stewart, and Intermountain

Dual Mode (DCC / DC)

LokSound Select Micro

.75A Motor Controller
4 Functions

0.98” x .417” (25mm x 10.6mm x 3.8mm)



LOKSOUND SELECT

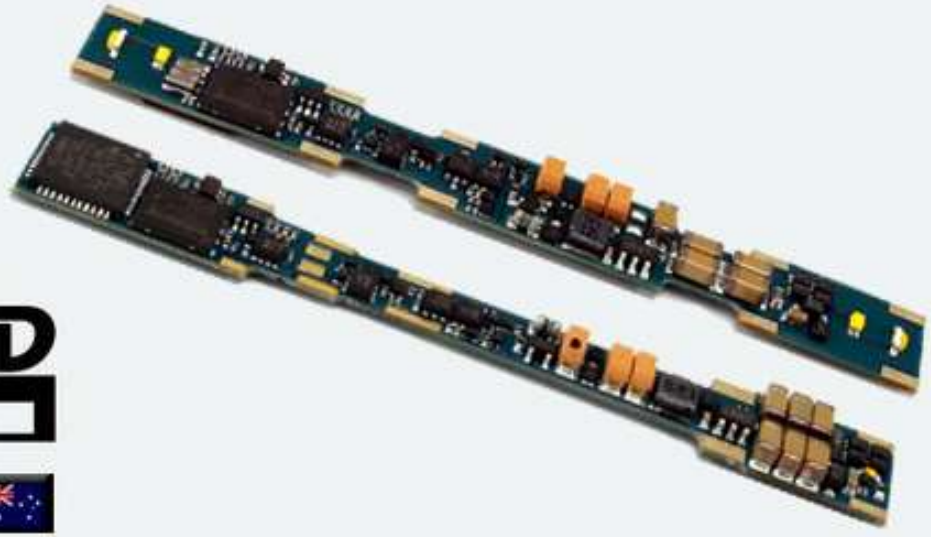
Only Available From ESU LLC (USA)

8-Pin NMRA

Dual Mode (DCC / DC)

LokSound Select Direct Micro

.75A Motor Controller
6 Functions



2.60” long x .32” wide x .18” tall (66mm x 8.2mm x 4.5mm)

Dual Mode (DCC / DC)

Available in a retail version which will drop into many pre-2016 Atlas and InterMountain Locos, (and others with minor modification) and an OEM version which is made as an upgrade to DC Locos that came from the factory with ESU Sound.

LokSound V4.0

1.1A Motor Controller
6 Functions

1.18” x 0.59” (30mm x 15mm)

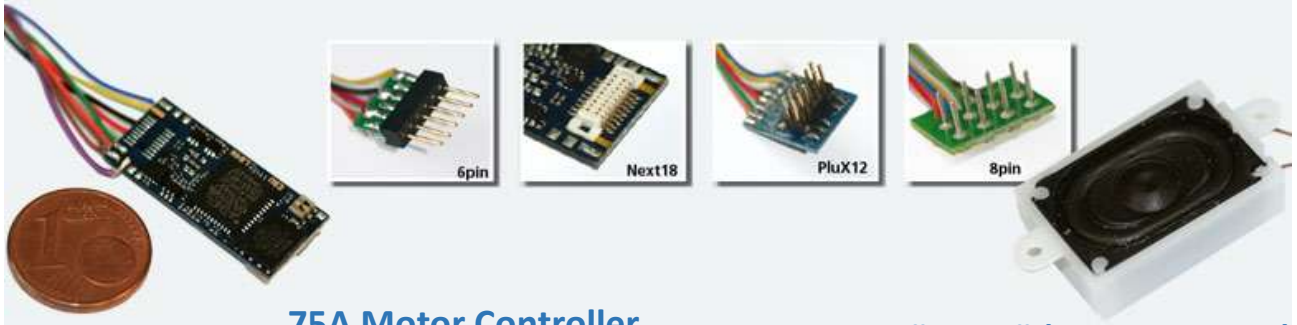
23mm Speaker

Dual Mode (DCC / DC)

The LokSound V4.0 recognizes DCC, Selectrix® and the Motorola® protocol.

LokSound Micro V4.0

0.98” x .417” (25mm x 10.6mm x 3.8mm)



.75A Motor Controller
4 Functions

0.6” x 1.0” (16mmx25mm)
Speaker + Baffle

Dual Mode (DCC / DC)

The LokSound V4.0 recognizes DCC, Selectrix® and the Motorola® protocol.

LokSound V4.0 M4

1.1A Motor Controller
6 Functions

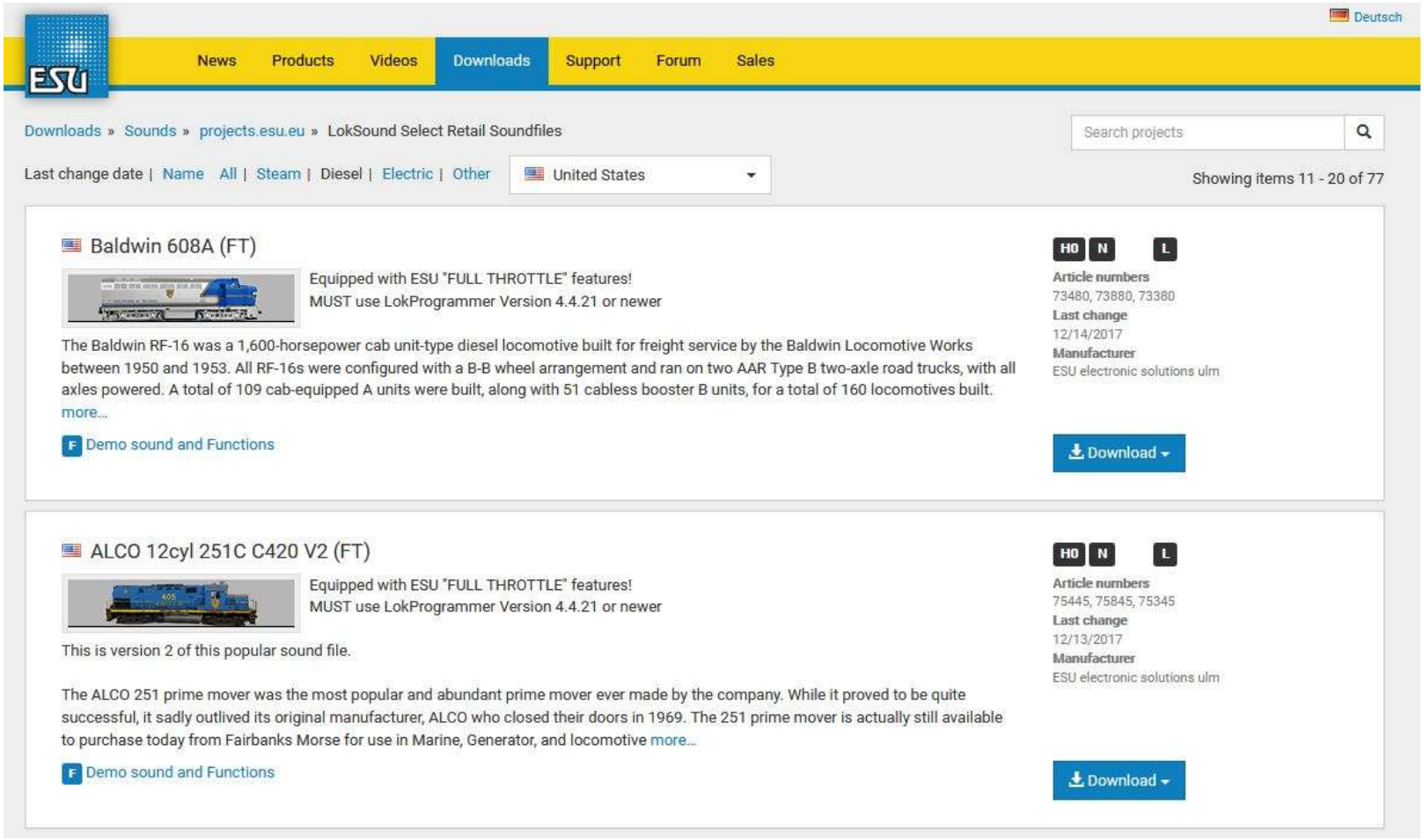
1.18” x 0.59” (30mm x 15mm)

23mm Speaker

Dual Mode (DCC / DC)

The LokSound V4.0 recognizes DCC, Selectrix®, Motorola® Protocol and M4

Sound File Downloads



Baldwin 608A (FT)

Equipped with ESU "FULL THROTTLE" features!
MUST use LokProgrammer Version 4.4.21 or newer

The Baldwin RF-16 was a 1,600-horsepower cab unit-type diesel locomotive built for freight service by the Baldwin Locomotive Works between 1950 and 1953. All RF-16s were configured with a B-B wheel arrangement and ran on two AAR Type B two-axle road trucks, with all axles powered. A total of 109 cab-equipped A units were built, along with 51 cabless booster B units, for a total of 160 locomotives built. As was the case with most passenger locomotives of its day, the RF-16s came equipped with a retractable, nose-mounted drop coupler pilot. Unlike competing units from EMD and Alco, the RF-16 used an air-powered throttle, meaning that it could not be run in MU operation with EMD or Alco diesels without special MU equipment.

The Baldwin 608A Prime mover can also be used for the following Locomotives:

RF-16 "Sharknose"
AS-616
AS-16
AS-416

The 608SC is also a similar sound and can be found in the following locomotives:
DRS-6-4-1500
DRS-4-4-1500
DRS-6-6-1500
DR-4-4-1500 "Babyface"
DR-4-6-1500

Please note:
This file contains an unused "Class Light" feature which allows for Cycling Aux3, Aux4, and Aux5 when using a 21MTC decoder. Assign the "Class Light" "Sound" to the function button of your choice and and be sure each Aux listed above is set to "Dimmable Headlight".

As with all SELECT decoders there are up to 16 separate horns, 2 separate brake squeals and 2 bells included on this one sound profile! All changeable using CV48.

Sound Slot 9 is a Second Leslie A200#2 with a slightly different Sound Speed. This will allow for more than one in the case of Dual Horns. You can map this on the Horn Button or map it seperately to have 2 distinct horns on 2 buttons. The Sound Speed of each horn can be adjusted for more variety.

HO N L

Article numbers
73480, 73880, 73380
Last change
12/14/2017
Manufacturer
ESU electronic solutions ulm

Prime Mover:
CV48=0 Baldwin 608A

Uses our INTERMEDIATE-HORNS-AND-BELLS template...

Horns:
CV48=0 Leslie A200
CV48=1 Nathan K3L
CV48=2 Nathan M5
CV48=3 Nathan P3
CV48=4 Nathan Old Cast P5
CV48=5 Dual Leslie A200
CV48=6 Leslie RS3L
CV48=7 Leslie RS5T
CV48=8 Leslie A125
CV48=9 Nathan M3
CV48=10 Leslie RS3K
CV48=11 Leslie S3LR
CV48=12 Hancock Air Whistle
CV48=13 Nathan M3H
CV48=14 Leslie S3E
CV48=15 Leslie Dual A125-A200

Bells:
CV48=0 EMD Brass Bell
CV48=64 EMD Bronze Bell

Add values from above for total CV48 value.

Default CV48 Value = 0

0 - Baldwin 608A
0 - Leslie A200
0 - Brass Bell

Total 0+0+0 = 0

Please Note:
File Contains a MILW E-Bell which can be selected in Function Mapping. Simply choose the appropriate Sound Slot for F1.
Sound Slot 4 is the default bell (changable with CV48)
Sound Slot 22 is the MILW E-Bell

New FULL THROTTLE features:
Drive Hold: Sound Slot 2 Mapped to F9
Independent Brake: Sound Slot 11 Mapped to F10
Run 8: Sound Slot 20 (not Mapped)
Coast: Sound Slot 21 (not Mapped)

For more info please see the "Full Throttle" Quick Start Guide in the ESU Instruction Manual Section of our Website.

http://www.esu.eu/en/downloads/instruction-manuals/digital-decoders/ Hide description

F Demo sound and Functions

Download

Example of Sound File Variety – EMD 567

1. 6 Cylinder 567A
2. 12 Cylinder 567B
3. 16 Cylinder 567B
4. 12 Cylinder Dual 567 BC
5. 16 Cylinder 567BC
6. 12 Cylinder 567C
7. 12 Cylinder Dual 567C
8. 16 Cylinder 567C
9. 16 Cylinder 567C GP10
10. 16 Cylinder 567D
11. 16 Cylinder 567D3
12. 16 Cylinder 567D3 V2 (Recorded from GP30)

“Full Throttle” Explained

1. Drive Hold: Disconnects throttle from motor so it controls the sound independently. Locomotive stays at constant speed, throttle controls prime mover speed.

2. Run 8: Disconnects sound from motor and makes the sound go to Run 8. Throttle controls locomotive speed.

3. Coast: Disconnects sound from motor and makes the sound go to idle. Throttle controls locomotive speed.

4. Brake: Acts as independent brake. Works best with high momentum setting.

5. Dynamic Brake: Works like prototype – prime mover drops to idle then back up to Run 4 (depending on prototype), the fans come on. When released, prime mover goes to idle, fans turn off, and then the prime mover increases back to throttle setting. Dynamic brakes do not work when stopped.

Decoder Tester

1. Connections: 6-pole NEM 651 socket, 8-pole NEM 652 socket, 21MTC interface as per NEM 660, PluX22 socket and Next18 interface. Terminals for wired decoders.

2. Coreless motor with flywheel, direction LEDs to check motor output. LED's for headlight, back-up light and function outputs AUX1 through AUX6.

3. 20 mm speaker can be switched off or changed to 100 Ohm or 16 Ohm.

Decoder Programmer

1. Change the sound saved on the decoder.
2. Setting of all digital parameters of the Loksound.
3. Rearrange your sounds and transfer to the LokSound decoder.
4. You can use all sounds that can be downloaded to your computer hard disk.
5. Sound can be allocated to different events.
6. Additional sounds can be activated via function buttons.

LokPilot Decoders

LokPilot V4.0

The LokPilot V4.0, top of the range, speaks DCC, Motorola® and Selectrix®. Armed for the coming NMRA DCC BiDirectional Standard („RailCom®"), it is for all ambitious model railroaders with technical vision and an appetite for new technologies.

LokPilot V4.0 DCC

The LokPilot V4.0 DCC speaks DCC only and is also armed for the coming NMRA DCC BiDirectional Standard („RailCom®") and it is predestined for all ambitious model railroaders with technical vision and an appetite for new technologies.

LokPilot V4.0 M4

The LokPilot V4.0 M4 could be the choice of all Märklin®-systems fans, who want maximum play value.

LokPilot V4.0 M4 MKL

The LokPilot V4.0 M4 MKL specially has been designed for newer Märklin® locomotives with a 21-pin interface.

LokPilot Standard

The LokPilot Standard is a DCC decoder for modellers that are looking for a robust, high quality DCC decoder for their standard requirements, which should also be easily affordable.

LokPilot Fx V4.0

The LokPilot Fx V4.0 is used to digitize motor-less rolling stock. It offers up to 6 function outputs and speaks DCC, Motorola® and Selectrix®.

Common Features

1. All function outputs and the motor connection are protected against overload and short-circuit.
2. “Full Throttle” features
3. V4 decoders use 4 ohm speakers
4. Sound files can be changed with programmer
5. CV’s select whistles/horns/bells
6. Individual sound volumes
7. 8-channel sound

Questions?